

FCC Radio Test Report

FCC ID: 2AJN7-TP00143AL

Report No. : BTL-FCCP-11-2112T127
Equipment : Notebook Computer
Model Name : TP00143AL
Brand Name : Lenovo
Applicant : LC Future Center
Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan
Manufacturer : Lenovo PC HK Limited
Address : 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R. China

Radio Function : WCDMA Band V, LTE Band 5, 26

FCC Rule Part(s) : FCC CFR Title 47, Part 22, Subpart H
Measurement : ANSI C63.26-2015
Procedure(s) : ANSI/TIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2022/1/13
Date of Test : 2022/1/13 ~ 2022/3/11
Issued Date : 2022/3/31

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-11-2112T127	R00	Original Report.	2022/3/31	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
2.1046 22.913(a)(5)	Conducted Output Power Effective Radiated Power	APPENDIX B	Pass	-----
-	Peak To Average Ratio	NOTE (3)	Pass	-----
2.1049	Occupied Bandwidth	NOTE (3)	Pass	-----
22.917(a)	Band Edge Measurements	NOTE (3)	Pass	-----
2.1051 22.917(a)	Conducted Spurious Emissions	NOTE (3)	Pass	-----
2.1055 22.355	Frequency Stability Temperature & Voltage	NOTE (3)	Pass	-----
2.1053 22.917(a)	Radiated Spurious Emissions	APPENDIX C	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This item is demonstrated to full compliance referring to the test report number FG003022A, FG003022B of the integrated module (model name: L860-GL-16, FCC ID: ZMOL860GL16), according to KDB 996369 D02 Q1 a) 2).
- (4) The ac power lines conducted emissions and radiated emissions are tested to demonstrate full compliance of both module integrated into the host and host itself.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

- C05 CB08 CB11 CB15 CB16
 SR05

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately **95 %**. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Effective Radiated Power and Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	23 °C, 60 %	AC 120V	Angela Wang
Conducted Output Power	23.5 °C, 58.5 %	AC 120V	William Wei
Effective Radiated Power	Refer to data	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Vincent Lee Eddie Lee

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer			
Model Name	TP00143AL			
Brand Name	Lenovo			
Model Difference	N/A			
Power Source	DC voltage supplied from External Power Supply. (Lenovo/ ADL135SLC3A, ADL135SCC2A)			
Power Rating	I/P: 100-240V~ 2.5A 50-60Hz O/P: DC20.0V 6.75A 135.0W			
WWAN Module	Fibocom / L860-GL-16			
Operation Frequency	Band	UL Frequency (MHz)	DL Frequency (MHz)	
	WCDMA V	824 ~ 849	869 ~ 894	
	LTE 5	824 ~ 849	869 ~ 894	
	LTE 26	824 ~ 849	869 ~ 894	
Maximum ERP	Band	BW (MHz)	Mode	Power (W)
	WCDMA V	-	-	0.102
	LTE 5	1.4	QPSK	0.108
			16QAM	0.087
		3	QPSK	0.110
			16QAM	0.089
		5	QPSK	0.111
			16QAM	0.090
	LTE 26	10	QPSK	0.115
			16QAM	0.092
		5	QPSK	0.112
			16QAM	0.091
	10	QPSK	0.114	
		16QAM	0.092	
15	QPSK	0.117		
	16QAM	0.095		
Test Model	TP00143AL			
Sample Status	Engineering Sample			
EUT Modification(s)	N/A			

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Table for Filed Antenna:

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	AWAN	DC33001WF00	PIFA	I-PEX	-2.16	WCDMA Band V
					-2.05	LTE Band 5
Aux	AWAN	DC33001WF10	PIFA	I-PEX	-	LTE Band 26 RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Conducted Output Power	WCDMA Band V	Refer to APPENDIX B	-
	LTE Band 5		
	LTE Band 26		
Effective Radiated Power	WCDMA Band V	TX Mode (CH 4132/4183/4233)	-
	LTE Band 5	TX Mode (CH 20450/20525/20600)	-
	LTE Band 26	TX Mode (CH 26865/26915/26965)	-
Radiated Spurious Emissions	WCDMA Band V	TX Mode (CH 4183)	-
	LTE Band 5	TX Mode (CH 20525)	-
	LTE Band 26	TX Mode (CH 26865)	-

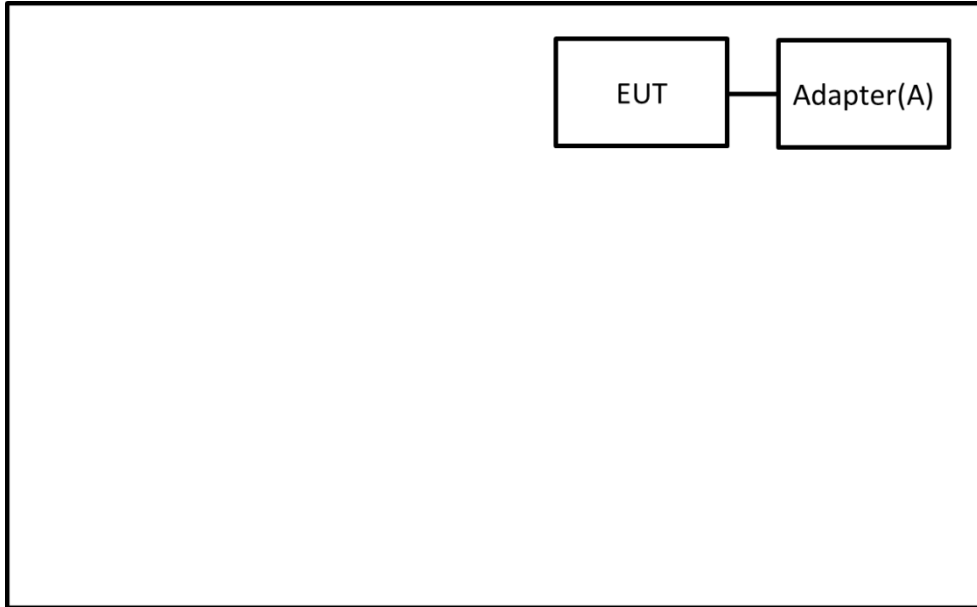
NOTE:

- (1) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.
- (2) For Radiated Spurious Emissions both QPSK and 16QAM are evaluated, but only the worst case (QPSK) is recorded.

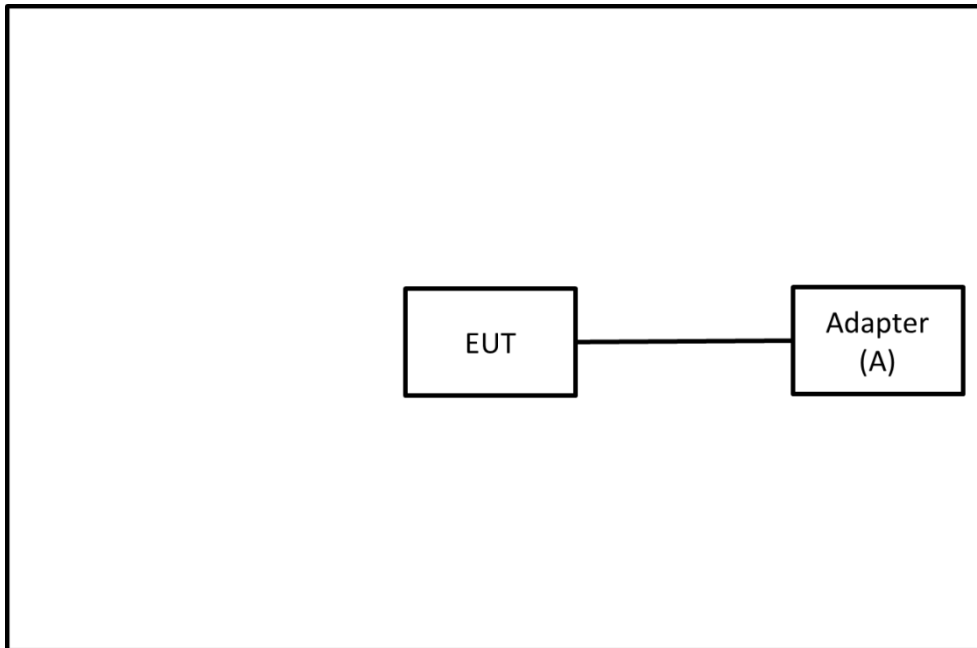
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	Lenovo	ADL135SLC3A	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
-	-	-	-	-	-

3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value
 Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).
 The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 The end of the cable will be terminated, using the correct terminating impedance.
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

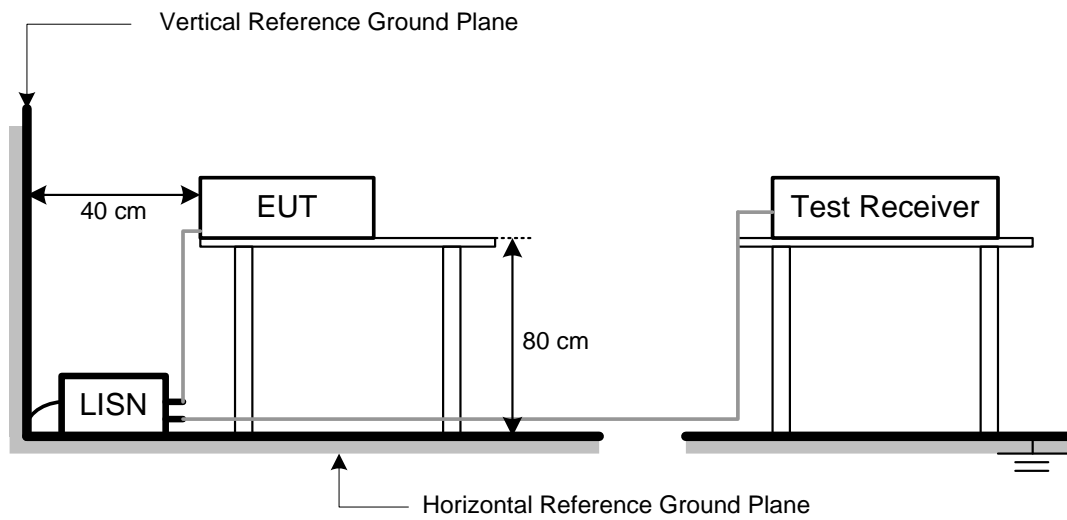
NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

4 EFFECTIVE RADIATED POWER MEASUREMENT

4.1 LIMIT

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts (38.45 dBm).

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-29.66	+	34.26	=	4.60

Measurement Value		Limit Value		Margin Level
4.60	-	38.45	=	-33.85

4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

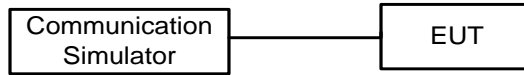
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15dBi.$
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.3 DEVIATION FROM TEST STANDARD

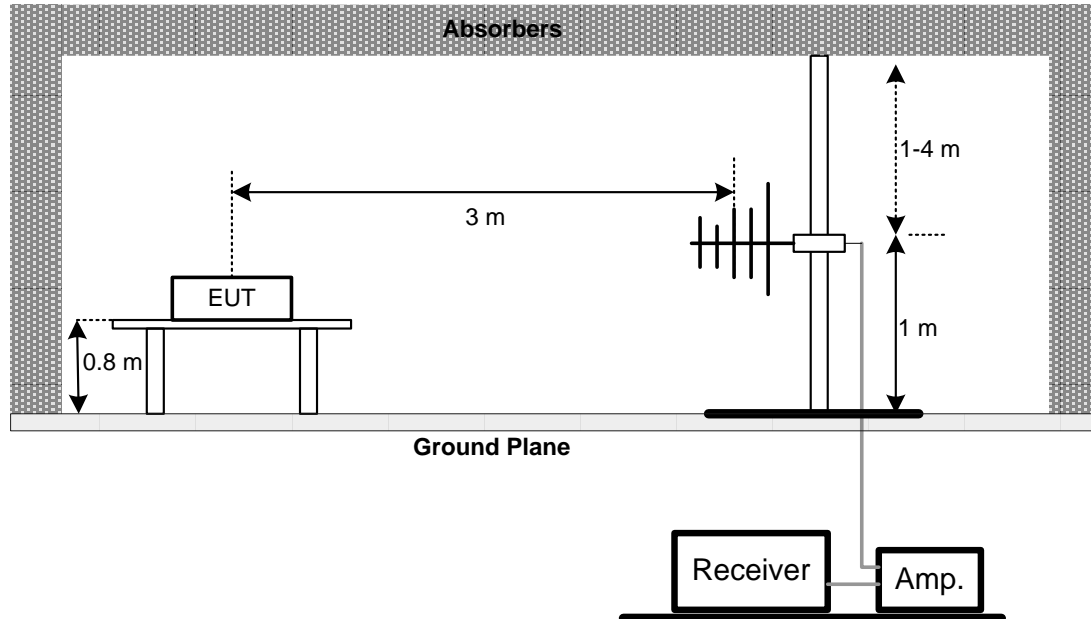
No deviation.

4.4 TEST SETUP

Conducted Measurement:



Radiated Measurement:



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX B.

5 RADIATED SPURIOUS EMISSIONS MEASUREMENT

5.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	=	-52.54

Measurement Value		Limit Value		Margin Level
-52.54	-	-13	=	-39.54

5.2 TEST PROCEDURE

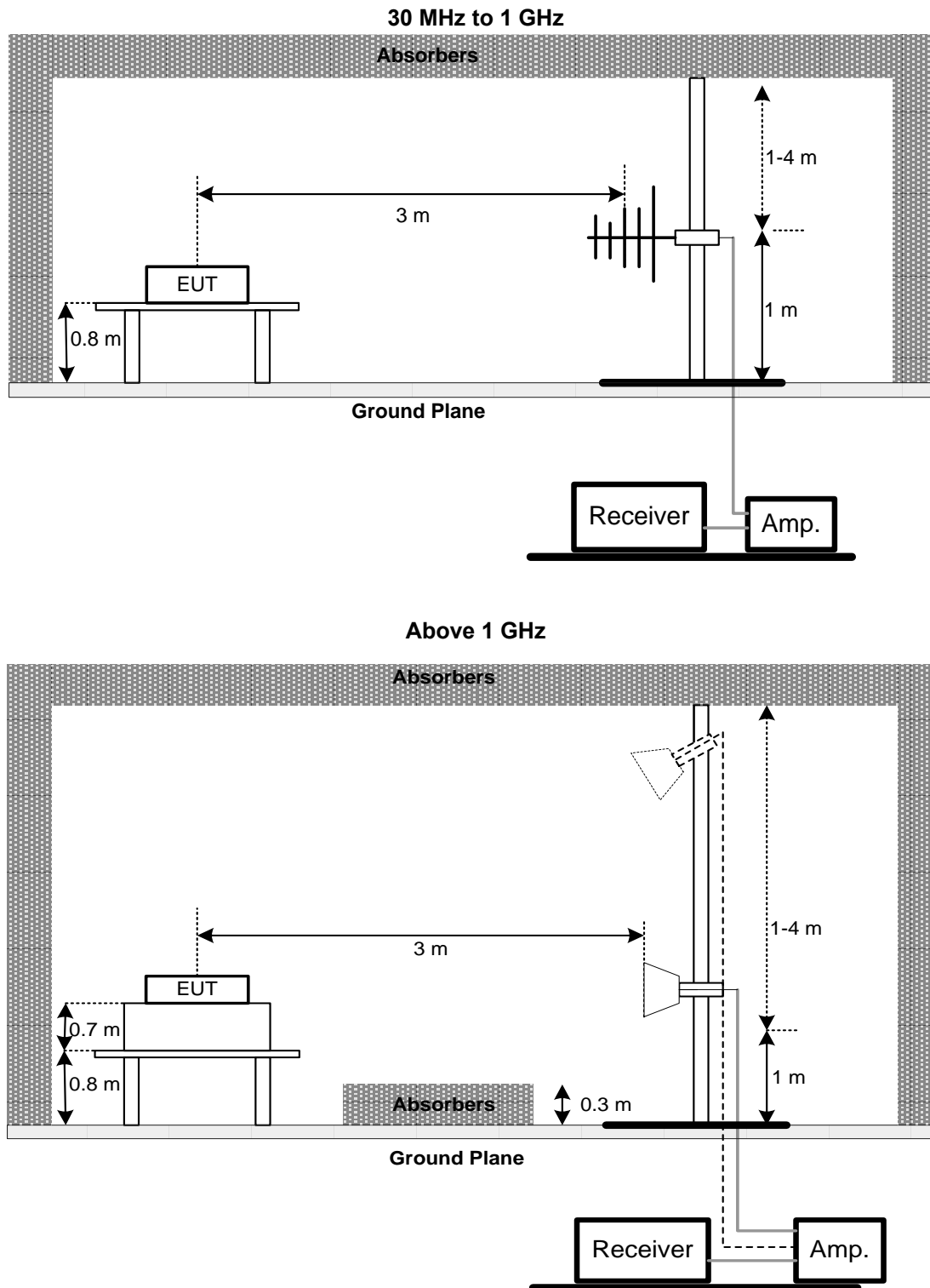
The testing follows FCC KDB 971168 v03r01 Section 6.2.

- f. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- g. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- h. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- i. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi.}$
- j. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX C.

6 LIST OF MEASURING EQUIPMENTS

AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101339	2021/3/10	2022/3/9
2	Test Cable	EMCI	EMCCFD300-BM-BMR-6000	170714	2021/6/7	2022/6/6
3	EMI Test Receiver	R&S	ESR 7	101433	2021/11/24	2022/11/23
4	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A

Conducted Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22
2	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/12/15	2022/12/14

Effective Radiated Power and Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980222	2021/4/8	2022/4/7
3	Test Cable	EMCI	EMC104-SM-1000	180809	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC-SM-SM-7000	180408	2021/4/8	2022/4/7
6	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
7	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
9	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
12	Measurement Software	EZ	EZ EMC (Version NB-03A1-01)	N/A	N/A	N/A
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22
14	Radio Communication Analyzer (LTE)	Anritsu	MT8821C	6262044728	2021/11/28	2022/11/27

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

7 EUT TEST PHOTO

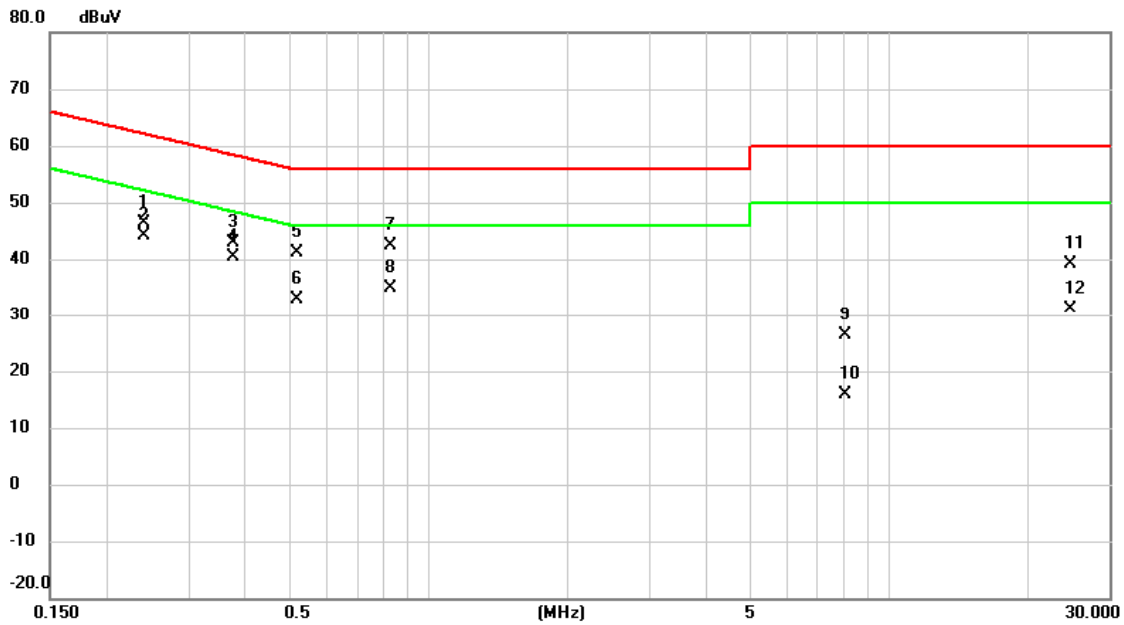
Please refer to document Appendix No.: TP-2112T127-1 (APPENDIX-TEST PHOTOS).

8 EUT PHOTOS

Please refer to document Appendix No.: EP-2112T127-1 (APPENDIX-EUT PHOTOS).

APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2022/2/16
Test Frequency	-	Phase	Line

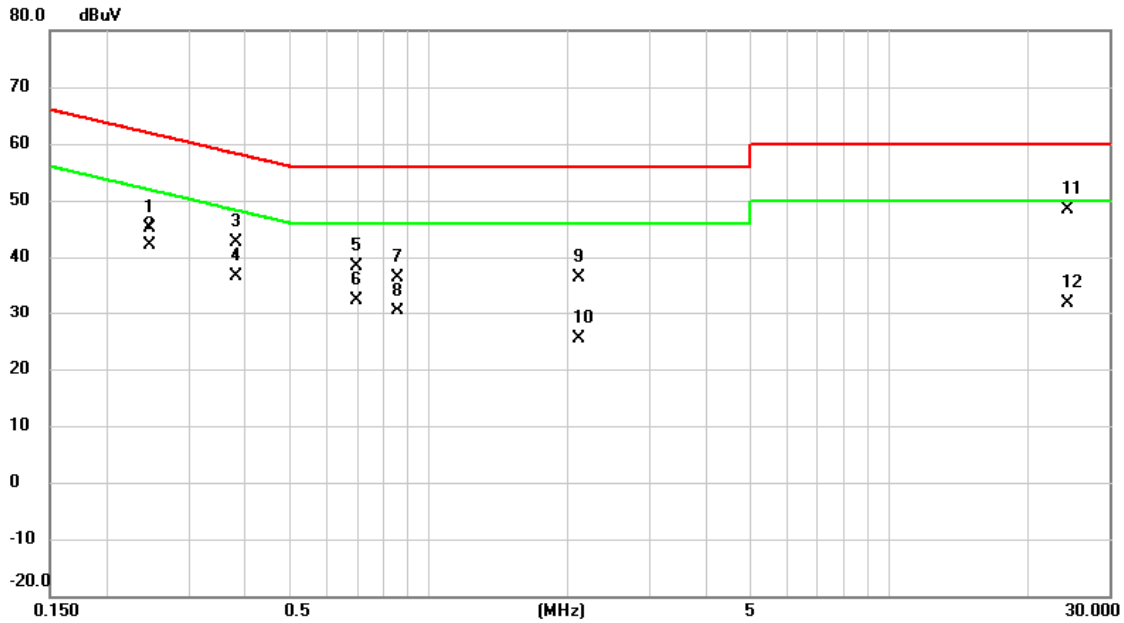


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2400	36.70	9.72	46.42	62.10	-15.68	QP	
2		0.2400	34.34	9.72	44.06	52.10	-8.04	AVG	
3		0.3772	33.21	9.72	42.93	58.34	-15.41	QP	
4	*	0.3772	30.69	9.72	40.41	48.34	-7.93	AVG	
5		0.5190	31.49	9.73	41.22	56.00	-14.78	QP	
6		0.5190	23.23	9.73	32.96	46.00	-13.04	AVG	
7		0.8272	32.56	9.74	42.30	56.00	-13.70	QP	
8		0.8272	25.06	9.74	34.80	46.00	-11.20	AVG	
9		8.0520	16.43	10.06	26.49	60.00	-33.51	QP	
10		8.0520	5.78	10.06	15.84	50.00	-34.16	AVG	
11		24.6525	28.97	10.24	39.21	60.00	-20.79	QP	
12		24.6525	20.84	10.24	31.08	50.00	-18.92	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2022/2/16
Test Frequency	-	Phase	Neutral

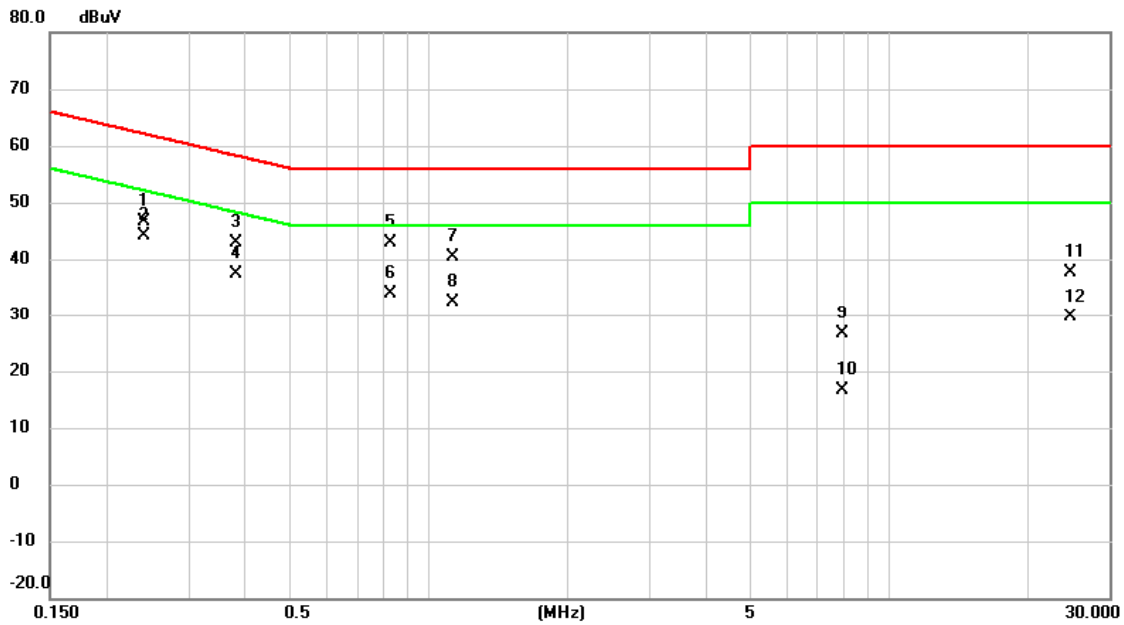


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2468	35.34	9.72	45.06	61.86	-16.80	QP	
2	*	0.2468	32.44	9.72	42.16	51.86	-9.70	AVG	
3		0.3817	32.96	9.73	42.69	58.24	-15.55	QP	
4		0.3817	26.99	9.73	36.72	48.24	-11.52	AVG	
5		0.6990	28.70	9.74	38.44	56.00	-17.56	QP	
6		0.6990	22.76	9.74	32.50	46.00	-13.50	AVG	
7		0.8587	26.55	9.75	36.30	56.00	-19.70	QP	
8		0.8587	20.65	9.75	30.40	46.00	-15.60	AVG	
9		2.1188	26.67	9.78	36.45	56.00	-19.55	QP	
10		2.1188	15.59	9.78	25.37	46.00	-20.63	AVG	
11		24.4298	38.03	10.41	48.44	60.00	-11.56	QP	
12		24.4298	21.56	10.41	31.97	50.00	-18.03	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2022/2/16
Test Frequency	-	Phase	Line

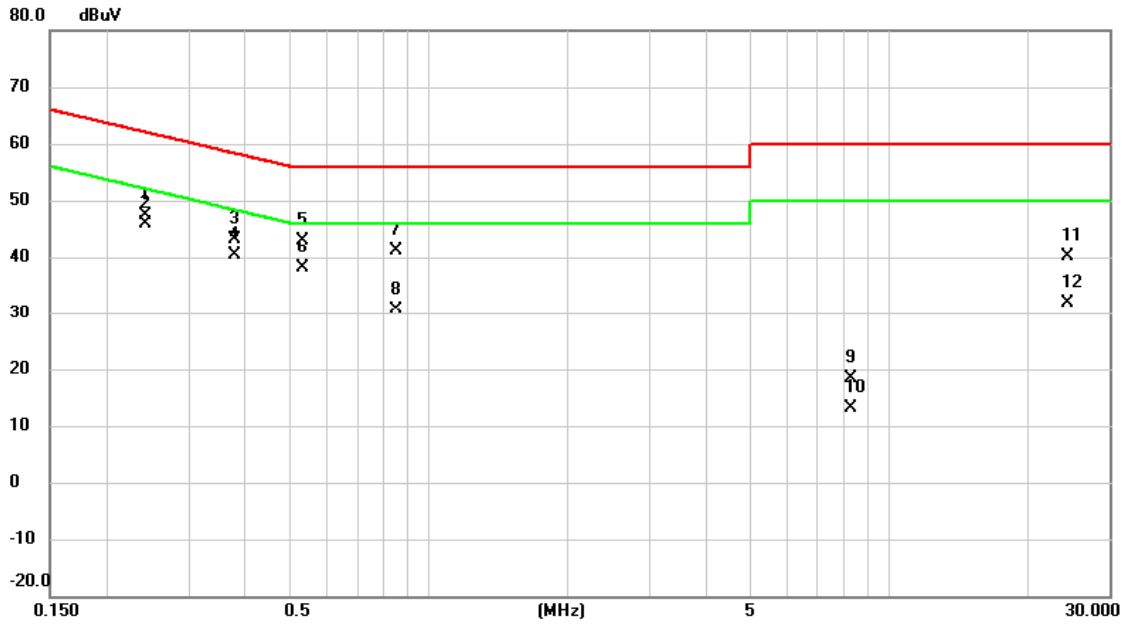


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2400	36.86	9.72	46.58	62.10	-15.52	QP	
2	*	0.2400	34.53	9.72	44.25	52.10	-7.85	AVG	
3		0.3817	33.21	9.72	42.93	58.24	-15.31	QP	
4		0.3817	27.63	9.72	37.35	48.24	-10.89	AVG	
5		0.8250	33.19	9.74	42.93	56.00	-13.07	QP	
6		0.8250	24.12	9.74	33.86	46.00	-12.14	AVG	
7		1.1242	30.66	9.74	40.40	56.00	-15.60	QP	
8		1.1242	22.63	9.74	32.37	46.00	-13.63	AVG	
9		7.9148	16.47	10.05	26.52	60.00	-33.48	QP	
10		7.9148	6.52	10.05	16.57	50.00	-33.43	AVG	
11		24.6480	27.37	10.24	37.61	60.00	-22.39	QP	
12		24.6480	19.51	10.24	29.75	50.00	-20.25	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2022/2/16
Test Frequency	-	Phase	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2423	37.60	9.72	47.32	62.02	-14.70	QP	
2	*	0.2423	36.16	9.72	45.88	52.02	-6.14	AVG	
3		0.3795	33.46	9.73	43.19	58.29	-15.10	QP	
4		0.3795	30.71	9.73	40.44	48.29	-7.85	AVG	
5		0.5347	33.14	9.74	42.88	56.00	-13.12	QP	
6		0.5347	28.43	9.74	38.17	46.00	-7.83	AVG	
7		0.8475	31.31	9.75	41.06	56.00	-14.94	QP	
8		0.8475	20.86	9.75	30.61	46.00	-15.39	AVG	
9		8.2703	8.38	10.10	18.48	60.00	-41.52	QP	
10		8.2703	2.96	10.10	13.06	50.00	-36.94	AVG	
11		24.4410	29.74	10.41	40.15	60.00	-19.85	QP	
12		24.4410	21.53	10.41	31.94	50.00	-18.06	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX B EFFECTIVE RADIATED POWER

Conducted Output Power and calculated ERP:
WCDMA Band V Power:

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
WCDMA Band V	Rel 99	4132/4357	826.4	24.35	20.04	0.101
		4183/4408	836.6	24.40	20.09	0.102
		4233/4458	846.6	24.39	20.08	0.102

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSDPA Band V	1	4132/4357	826.4	24.24	19.93	0.098
		4183/4408	836.6	24.31	20.00	0.100
		4233/4458	846.6	24.32	20.01	0.100
	2	4132/4357	826.4	23.74	19.43	0.088
		4183/4408	836.6	23.83	19.52	0.090
		4233/4458	846.6	23.82	19.51	0.089
	3	4132/4357	826.4	23.25	18.94	0.078
		4183/4408	836.6	23.34	19.03	0.080
		4233/4458	846.6	23.37	19.06	0.081
	4	4132/4357	826.4	23.29	18.98	0.079
		4183/4408	836.6	23.38	19.07	0.081
		4233/4458	846.6	23.34	19.03	0.080

Band	Sub-test	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)	ERP Power (dBm)	ERP Power (W)
HSUPA Band V	1	4132/4357	826.4	24.11	19.80	0.095
		4183/4408	836.6	24.23	19.92	0.098
		4233/4458	846.6	24.23	19.92	0.098
	2	4132/4357	826.4	22.13	17.82	0.061
		4183/4408	836.6	22.28	17.97	0.063
		4233/4458	846.6	22.24	17.93	0.062
	3	4132/4357	826.4	23.16	18.85	0.077
		4183/4408	836.6	23.27	18.96	0.079
		4233/4458	846.6	23.24	18.93	0.078
	4	4132/4357	826.4	22.16	17.85	0.061
		4183/4408	836.6	22.24	17.93	0.062
		4233/4458	846.6	22.26	17.95	0.062
	5	4132/4357	826.4	24.06	19.75	0.094
		4183/4408	836.6	24.16	19.85	0.097
		4233/4458	846.6	24.14	19.83	0.096

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10)} / 1000$

LTE Band 5 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	1.4	20407	824.7	QPSK	1	0	0	24.6	20.3	0.107
					1	2	0	24.5	20.2	0.105
					1	5	0	24.4	20.1	0.103
					3	0	0	23.7	19.4	0.087
					3	1	0	23.6	19.3	0.084
					3	2	0	23.5	19.2	0.083
				6	0	1	23.7	19.4	0.086	
				1	0	1	23.7	19.4	0.087	
				1	2	1	23.6	19.3	0.085	
				1	5	1	23.5	19.2	0.084	
				3	0	1	22.6	18.3	0.068	
				3	1	1	22.5	18.2	0.066	
		3	2	1	22.4	18.1	0.064			
		6	0	2	22.6	18.3	0.067			
		1	0	0	24.7	20.3	0.108			
		1	2	0	24.6	20.3	0.106			
		1	5	0	24.5	20.2	0.104			
		3	0	0	23.7	19.4	0.088			
		3	1	0	23.6	19.3	0.085			
		3	2	0	23.5	19.2	0.084			
		6	0	1	23.7	19.4	0.087			
		1	0	1	23.7	19.4	0.087			
		1	2	1	23.6	19.3	0.086			
		1	5	1	23.6	19.3	0.084			
		3	0	1	22.6	18.3	0.068			
		3	1	1	22.5	18.2	0.066			
		3	2	1	22.4	18.1	0.064			
		6	0	2	22.5	18.2	0.066			
		1	0	0	24.6	20.3	0.107			
		1	2	0	24.5	20.2	0.105			
		1	5	0	24.4	20.1	0.103			
		3	0	0	23.7	19.4	0.087			
		3	1	0	23.6	19.3	0.084			
		3	2	0	23.5	19.2	0.083			
		6	0	1	23.7	19.4	0.086			
		1	0	1	23.7	19.4	0.087			
1	2	1	23.6	19.3	0.085					
1	5	1	23.5	19.2	0.084					
3	0	1	22.6	18.2	0.067					
3	1	1	22.4	18.1	0.065					
3	2	1	22.5	18.2	0.067					
6	0	2	22.5	18.2	0.066					

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)	
5	3	20415	825.5	QPSK	1	0	0	24.7	20.4	0.109	
					1	7	0	24.6	20.3	0.107	
					1	14	0	24.5	20.2	0.104	
					8	0	1	23.8	19.5	0.089	
					8	4	1	23.6	19.3	0.086	
					8	7	1	23.6	19.3	0.084	
				16QAM	15	0	1	23.7	19.4	0.087	
					1	0	1	23.8	19.5	0.088	
					1	7	1	23.7	19.4	0.086	
					1	14	1	23.6	19.3	0.085	
					8	0	2	22.7	18.4	0.069	
					8	4	2	22.6	18.3	0.067	
		20525	836.5	QPSK	8	7	2	22.5	18.1	0.065	
						15	0	2	22.7	18.3	0.068
						1	0	0	24.7	20.4	0.110
						1	7	0	24.6	20.3	0.108
						1	14	0	24.5	20.2	0.105
						8	0	1	23.8	19.5	0.089
				16QAM	8	4	1	23.7	19.4	0.086	
					8	7	1	23.6	19.3	0.085	
					15	0	1	23.8	19.5	0.088	
					1	0	1	23.8	19.5	0.089	
					1	7	1	23.7	19.4	0.087	
					1	14	1	23.6	19.3	0.086	
		20634	847.4	QPSK	8	0	2	22.7	18.4	0.069	
						8	4	2	22.6	18.2	0.067
						8	7	2	22.4	18.1	0.065
						15	0	2	22.6	18.3	0.067
						1	0	0	24.7	20.4	0.109
						1	7	0	24.6	20.3	0.106
				16QAM	1	14	0	24.5	20.2	0.105	
					8	0	1	23.8	19.5	0.089	
					8	4	1	23.6	19.3	0.086	
					8	7	1	23.6	19.3	0.085	
					15	0	1	23.7	19.4	0.087	
					1	0	1	23.8	19.5	0.088	
16QAM	1	7	1	23.7	19.4	0.086					
	1	14	1	23.6	19.3	0.085					
	8	0	2	22.6	18.3	0.068					
	8	4	2	22.5	18.2	0.066					
	8	7	2	22.6	18.3	0.068					
	15	0	2	22.6	18.3	0.067					

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)		
5	5	20425	826.5	QPSK	1	0	0	24.7	20.4	0.110		
					1	12	0	24.6	20.3	0.108		
					1	24	0	24.6	20.2	0.106		
					12	0	1	23.8	19.5	0.090		
					12	6	1	23.7	19.4	0.087		
					12	11	1	23.6	19.3	0.085		
				16QAM	25	0	1	23.8	19.5	0.089		
					1	0	1	23.8	19.5	0.089		
					1	12	1	23.7	19.4	0.087		
					1	24	1	23.7	19.3	0.086		
					12	0	2	22.7	18.4	0.070		
					12	6	2	22.6	18.3	0.068		
		20525	836.5	QPSK	836.5	QPSK	12	11	2	22.5	18.2	0.066
							25	0	2	22.7	18.4	0.069
							1	0	0	24.8	20.5	0.111
							1	12	0	24.7	20.4	0.109
							1	24	0	24.6	20.3	0.107
							12	0	1	23.9	19.6	0.090
				16QAM	12	6	1	23.7	19.4	0.087		
					12	11	1	23.7	19.4	0.086		
					25	0	1	23.8	19.5	0.089		
					1	0	1	23.8	19.5	0.090		
					1	12	1	23.8	19.5	0.088		
					1	24	1	23.7	19.4	0.087		
		20625	846.5	QPSK	846.5	QPSK	12	0	2	22.7	18.4	0.070
							12	6	2	22.6	18.3	0.067
							12	11	2	22.5	18.2	0.066
							25	0	2	22.6	18.3	0.068
							1	0	0	24.7	20.4	0.110
							1	12	0	24.6	20.3	0.108
				16QAM	1	24	0	24.6	20.3	0.106		
					12	0	1	23.8	19.5	0.090		
					12	6	1	23.7	19.4	0.086		
					12	11	1	23.6	19.3	0.086		
					25	0	1	23.8	19.5	0.089		
					1	0	1	23.8	19.5	0.089		
16QAM	1	12	1	23.7	19.4	0.087						
	1	24	1	23.7	19.4	0.086						
	12	0	2	22.7	18.4	0.069						
	12	6	2	22.5	18.2	0.066						
	12	11	2	22.7	18.4	0.068						
	25	0	2	22.6	18.3	0.068						

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)	ERP power (dBm)	ERP power (W)
5	10	20450	829.0	QPSK	1	0	0	24.9	20.6	0.114
					1	24	0	24.8	20.5	0.111
					1	49	0	24.7	20.4	0.109
					25	0	1	24.0	19.7	0.092
					25	12	1	23.8	19.5	0.089
					25	24	1	23.8	19.4	0.088
				50	0	1	23.9	19.6	0.091	
				1	0	1	23.9	19.6	0.092	
				1	24	1	23.9	19.5	0.090	
				1	49	1	23.8	19.5	0.089	
				25	0	2	22.9	18.6	0.072	
				25	12	2	22.7	18.4	0.070	
		25	24	2	22.6	18.3	0.068			
		50	0	2	22.8	18.5	0.071			
		1	0	0	24.9	20.6	0.115			
		1	24	0	24.8	20.5	0.112			
		1	49	0	24.7	20.4	0.110			
		25	0	1	24.0	19.7	0.093			
		25	12	1	23.9	19.6	0.090			
		25	24	1	23.8	19.5	0.089			
		50	0	1	23.9	19.6	0.092			
		1	0	1	24.0	19.7	0.092			
		1	24	1	23.9	19.6	0.091			
		1	49	1	23.8	19.5	0.089			
		25	0	2	22.9	18.6	0.072			
		25	12	2	22.7	18.4	0.070			
		25	24	2	22.6	18.3	0.068			
		50	0	2	22.8	18.5	0.070			
		1	0	0	24.9	20.6	0.114			
		1	24	0	24.8	20.5	0.111			
1	49	0	24.7	20.4	0.109					
25	0	1	24.0	19.7	0.092					
25	12	1	23.8	19.5	0.089					
25	24	1	23.8	19.5	0.088					
50	0	1	23.9	19.6	0.091					
1	0	1	23.9	19.6	0.092					
1	24	1	23.8	19.5	0.090					
1	49	1	23.8	19.5	0.089					
25	0	2	22.8	18.5	0.071					
25	12	2	22.7	18.4	0.068					
25	24	2	22.8	18.5	0.070					
50	0	2	22.8	18.4	0.070					

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

LTE Band 26 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power	ERP power (dBm)	ERP power (W)
Band 26	5M	26715	816.5	QPSK	1	0	0	24.67	20.47	0.111
					1	12	0	24.59	20.39	0.109
					1	24	0	24.55	20.35	0.108
					12	0	1	23.76	19.56	0.090
					12	6	1	23.64	19.44	0.088
					12	11	1	23.62	19.42	0.087
				25	0	1	23.71	19.51	0.089	
				1	0	1	23.74	19.54	0.090	
				1	12	1	23.67	19.47	0.089	
				1	24	1	23.65	19.45	0.088	
				12	0	2	22.66	18.46	0.070	
				12	6	2	22.56	18.36	0.069	
				12	11	2	22.50	18.30	0.068	
				25	0	2	22.63	18.43	0.070	
				1	0	0	24.71	20.51	0.112	
		1	12	0	24.64	20.44	0.111			
		1	24	0	24.56	20.36	0.109			
		12	0	1	23.80	19.60	0.091			
		12	6	1	23.69	19.49	0.089			
		12	11	1	23.63	19.43	0.088			
		25	0	1	23.75	19.55	0.090			
		1	0	1	23.78	19.58	0.091			
		1	12	1	23.72	19.52	0.090			
		1	24	1	23.66	19.46	0.088			
		12	0	2	22.67	18.47	0.070			
		12	6	2	22.56	18.36	0.069			
		12	11	2	22.46	18.26	0.067			
		25	0	2	22.57	18.37	0.069			
		1	0	0	24.68	20.48	0.112			
		1	12	0	24.59	20.39	0.109			
		1	24	0	24.50	20.30	0.107			
		12	0	1	23.77	19.57	0.091			
		12	6	1	23.64	19.44	0.088			
		12	11	1	23.57	19.37	0.086			
		25	0	1	23.72	19.52	0.090			
		1	0	1	23.75	19.55	0.090			
		1	12	1	23.67	19.47	0.089			
		1	24	1	23.60	19.40	0.087			
		12	0	2	22.61	18.41	0.069			
		12	6	2	22.49	18.29	0.067			
		12	11	2	22.60	18.40	0.069			
		25	0	2	22.56	18.36	0.069			

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power	ERP power (dBm)	ERP power (W)
Band 26	10M	26740	819.0	QPSK	1	0	0	24.72	20.52	0.113
					1	24	0	24.64	20.44	0.111
					1	49	0	24.60	20.40	0.110
					25	0	1	23.81	19.61	0.091
					25	12	1	23.69	19.49	0.089
				25	24	1	23.67	19.47	0.089	
				50	0	1	23.76	19.56	0.090	
				16QAM	1	0	1	23.79	19.59	0.091
					1	24	1	23.72	19.52	0.090
					1	49	1	23.70	19.50	0.089
					25	0	2	22.71	18.51	0.071
					25	12	2	22.61	18.41	0.069
				25	24	2	22.55	18.35	0.068	
				50	0	2	22.68	18.48	0.070	
				26865	831.0	QPSK	1	0	0	24.76
		1	24				0	24.69	20.49	0.112
		1	49				0	24.61	20.41	0.110
		25	0				1	23.85	19.65	0.092
		25	12				1	23.74	19.54	0.090
		25	24			1	23.68	19.48	0.089	
		50	0			1	23.80	19.60	0.091	
		16QAM	1			0	1	23.83	19.63	0.092
			1			24	1	23.77	19.57	0.091
			1			49	1	23.71	19.51	0.089
			25			0	2	22.72	18.52	0.071
			25			12	2	22.61	18.41	0.069
		25	24			2	22.51	18.31	0.068	
		50	0			2	22.62	18.42	0.070	
		26990	844.0			QPSK	1	0	0	24.73
				1	24		0	24.64	20.44	0.111
				1	49		0	24.55	20.35	0.108
				25	0		1	23.82	19.62	0.092
				25	12		1	23.69	19.49	0.089
				25	24	1	23.62	19.42	0.087	
				50	0	1	23.77	19.57	0.091	
				16QAM	1	0	1	23.80	19.60	0.091
					1	24	1	23.72	19.52	0.090
					1	49	1	23.65	19.45	0.088
					25	0	2	22.66	18.46	0.070
					25	12	2	22.54	18.34	0.068
				25	24	2	22.65	18.45	0.070	
				50	0	2	22.61	18.41	0.069	

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

(3) P(W) = $1 \text{ W} \cdot 10^{(P(\text{dBm}) / 10)} / 1000$

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	Average power	ERP power (dBm)	ERP power (W)	
Band 26	15M	26765	816.5	QPSK	1	0	0	24.85	20.65	0.116	
					1	37	0	24.77	20.57	0.114	
					1	74	0	24.73	20.53	0.113	
					36	0	1	23.94	19.74	0.094	
					36	18	1	23.82	19.62	0.092	
					36	35	1	23.80	19.60	0.091	
				75	0	1	23.89	19.69	0.093		
				16QAM	1	0	1	23.92	19.72	0.094	
					1	37	1	23.85	19.65	0.092	
					1	74	1	23.83	19.63	0.092	
					36	0	2	22.84	18.64	0.073	
					36	18	2	22.74	18.54	0.071	
					36	35	2	22.68	18.48	0.070	
					75	0	2	22.81	18.61	0.073	
					26865	831.0	QPSK	1	0	0	24.89
		1	37					0	24.82	20.62	0.115
		1	74	0				24.74	20.54	0.113	
		36	0	1				23.98	19.78	0.095	
		36	18	1				23.87	19.67	0.093	
		36	35	1				23.81	19.61	0.091	
		75	0	1			23.93	19.73	0.094		
		16QAM	1	0			1	23.96	19.76	0.095	
			1	37			1	23.90	19.70	0.093	
			1	74			1	23.84	19.64	0.092	
			36	0			2	22.85	18.65	0.073	
			36	18			2	22.74	18.54	0.071	
			36	35			2	22.64	18.44	0.070	
			75	0			2	22.75	18.55	0.072	
			26965	841.5			QPSK	1	0	0	24.86
					1	37		0	24.77	20.57	0.114
		1			74	0		24.68	20.48	0.112	
		36			0	1		23.95	19.75	0.094	
		36			18	1		23.82	19.62	0.092	
		36			35	1		23.75	19.55	0.090	
		75			0	1	23.90	19.70	0.093		
		16QAM			1	0	1	23.93	19.73	0.094	
					1	37	1	23.85	19.65	0.092	
					1	74	1	23.78	19.58	0.091	
					36	0	2	22.79	18.59	0.072	
					36	18	2	22.67	18.47	0.070	
					36	35	2	22.78	18.58	0.072	
					75	0	2	22.74	18.54	0.071	

NOTE:

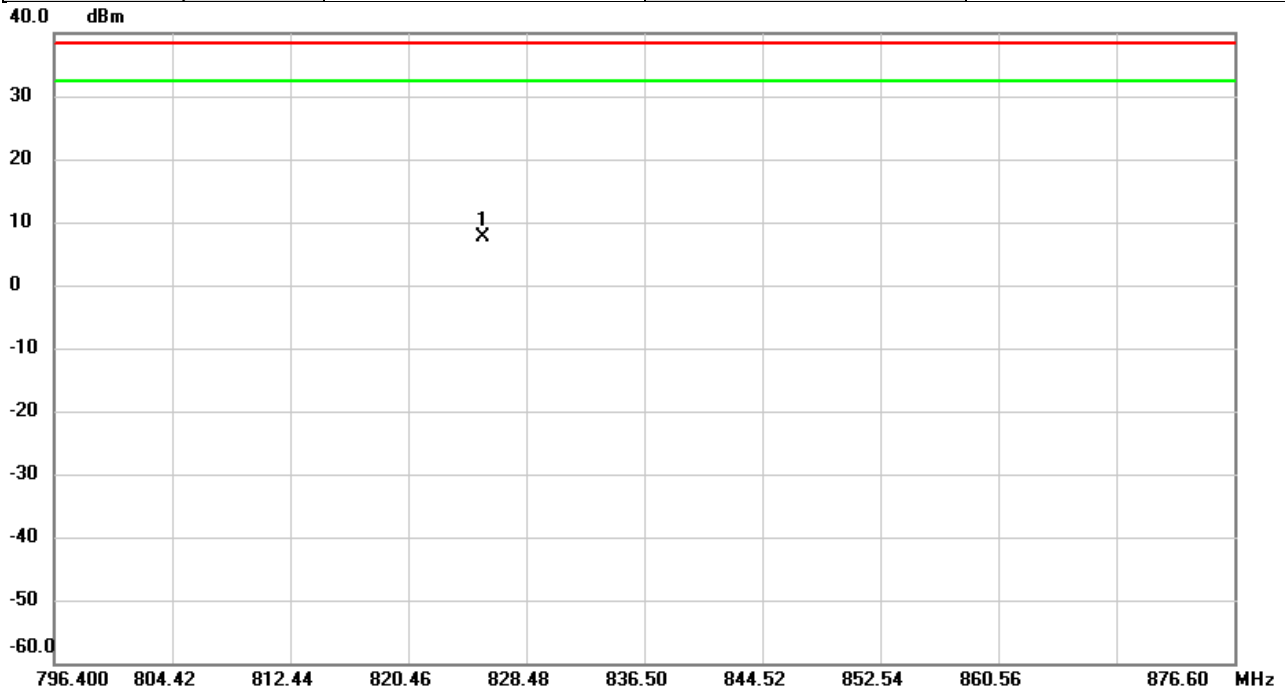
(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15.

 (3) $P(W) = 1 W \cdot 10^{(P(dBm) / 10) / 1000}$

Radiated ERP Power:

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4132	Polarization	Vertical
Temp	21°C	Hum.	64%

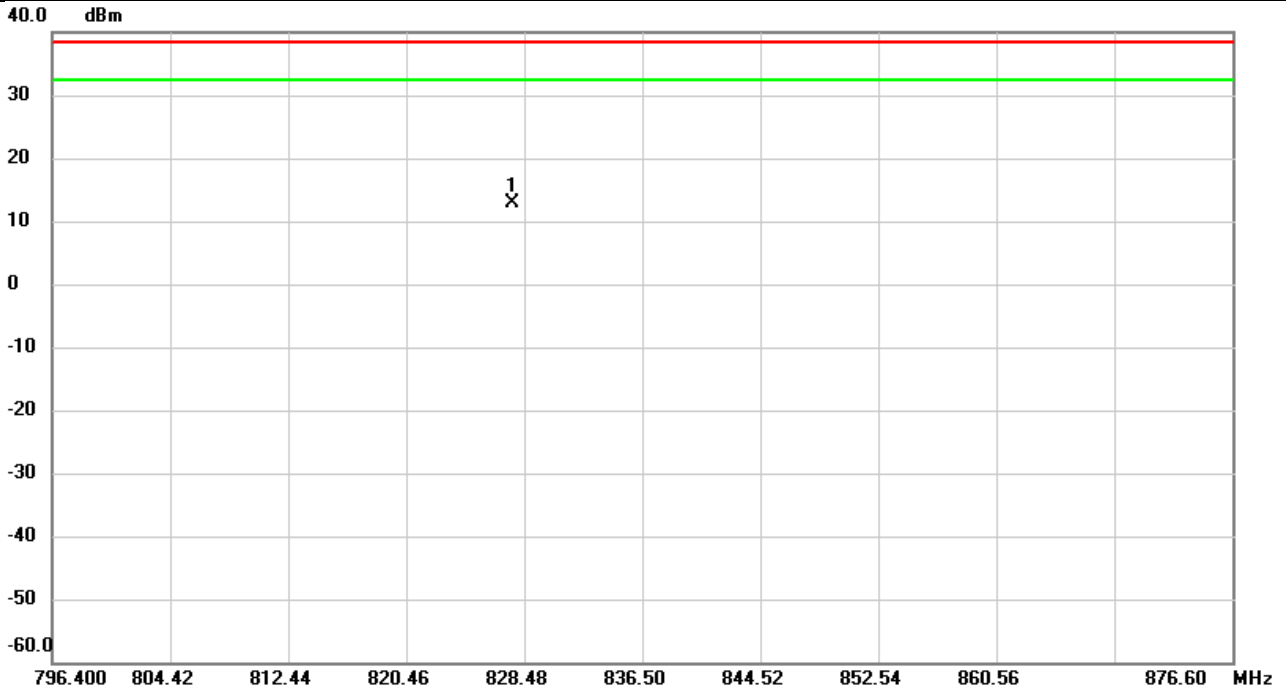


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	825.5206	-26.32	34.01	7.69	38.45	-30.76	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4132	Polarization	Horizontal
Temp	21°C	Hum.	64%

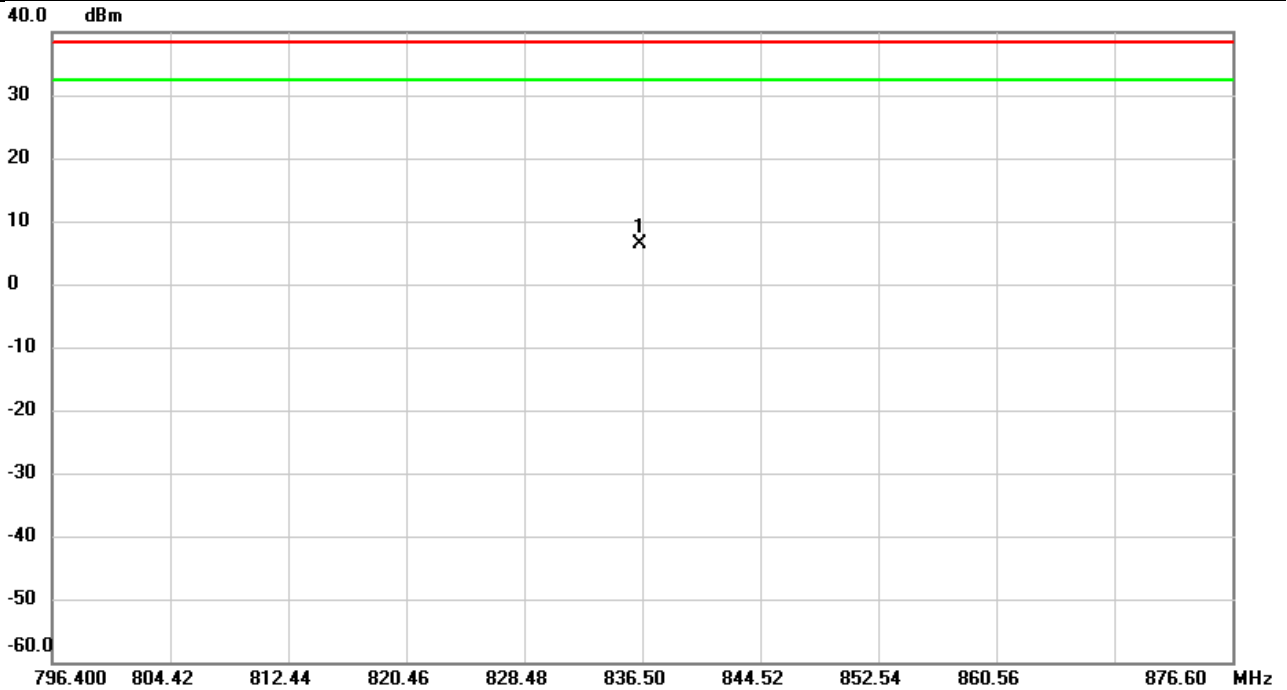


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	827.7073	-20.66	33.47	12.81	38.45	-25.64	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Vertical
Temp	21°C	Hum.	64%

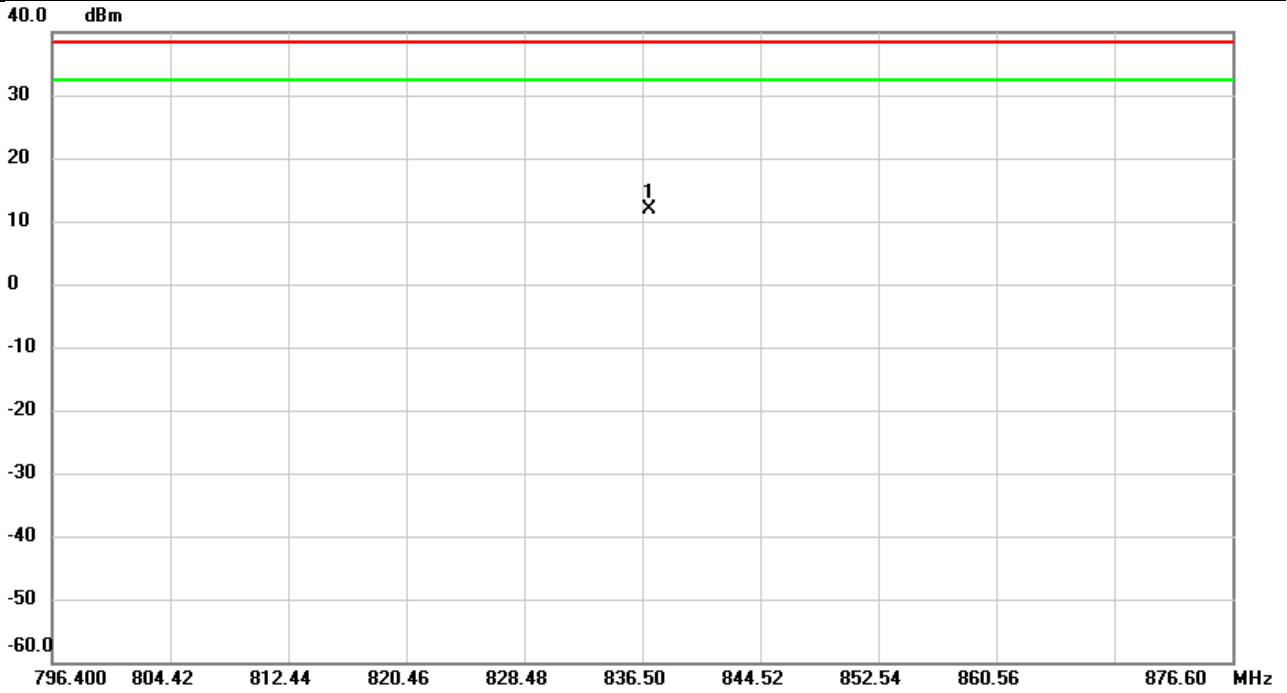


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	836.3290	-27.41	33.88	6.47	38.45	-31.98	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Horizontal
Temp	21°C	Hum.	64%

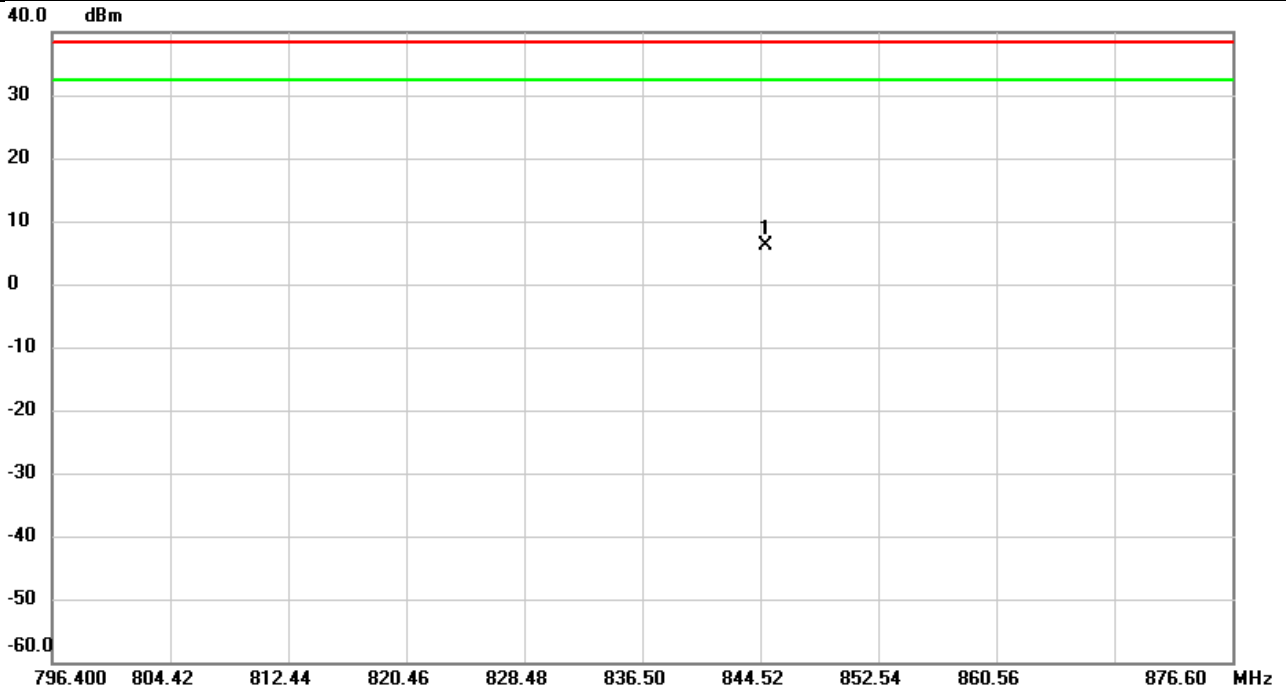


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	836.9840	-21.34	33.23	11.89	38.45	-26.56	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4233	Polarization	Vertical
Temp	21°C	Hum.	64%

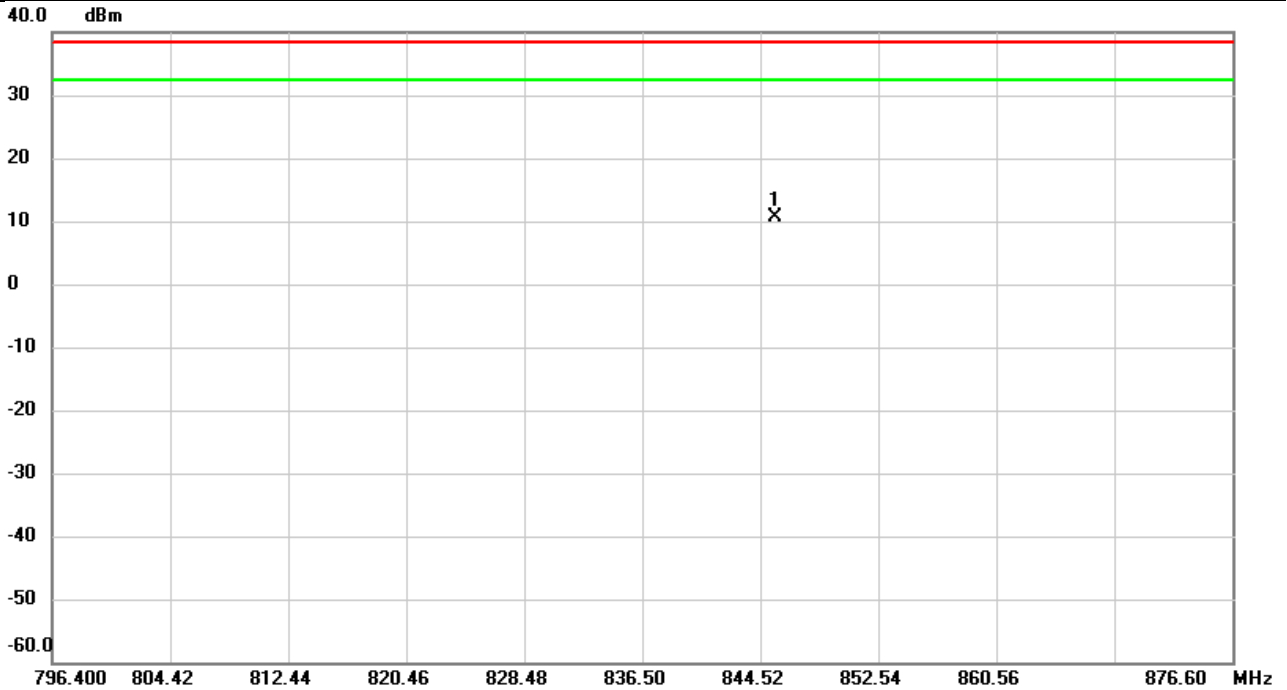


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	844.9050	-27.57	33.78	6.21	38.45	-32.24	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4233	Polarization	Horizontal
Temp	21°C	Hum.	64%

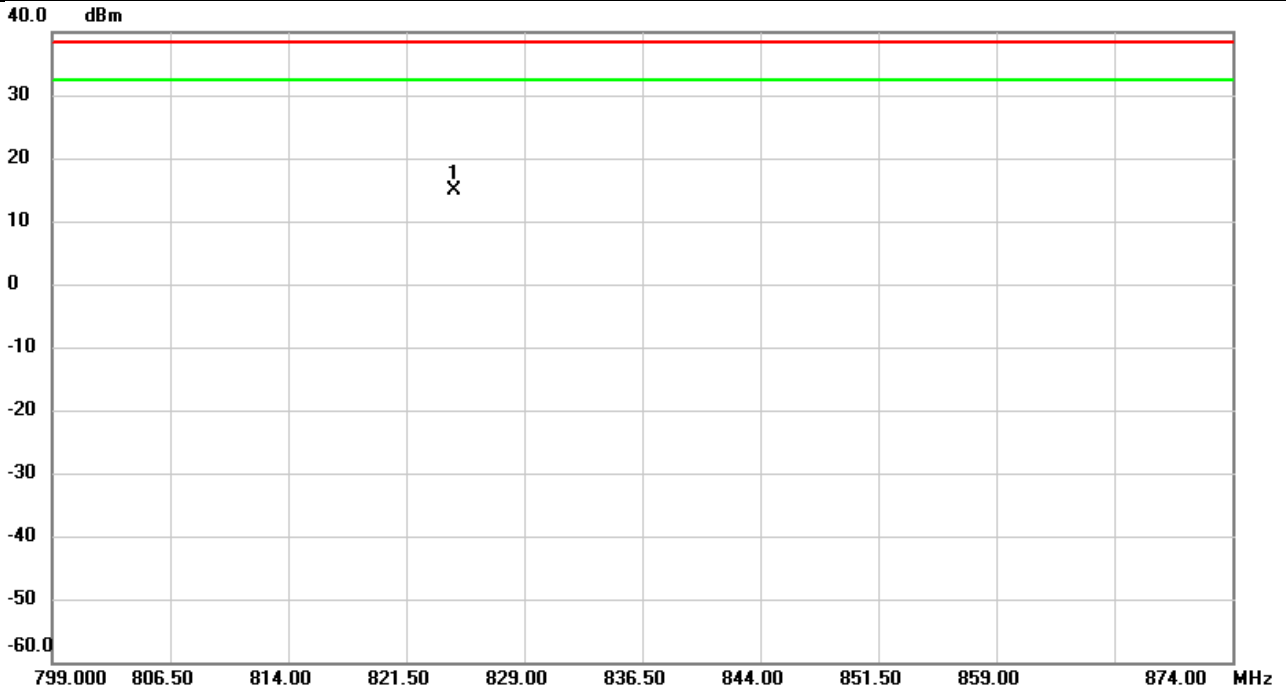


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	845.5840	-22.31	33.01	10.70	38.45	-27.75	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20450	Polarization	Vertical
Temp	21°C	Hum.	64%

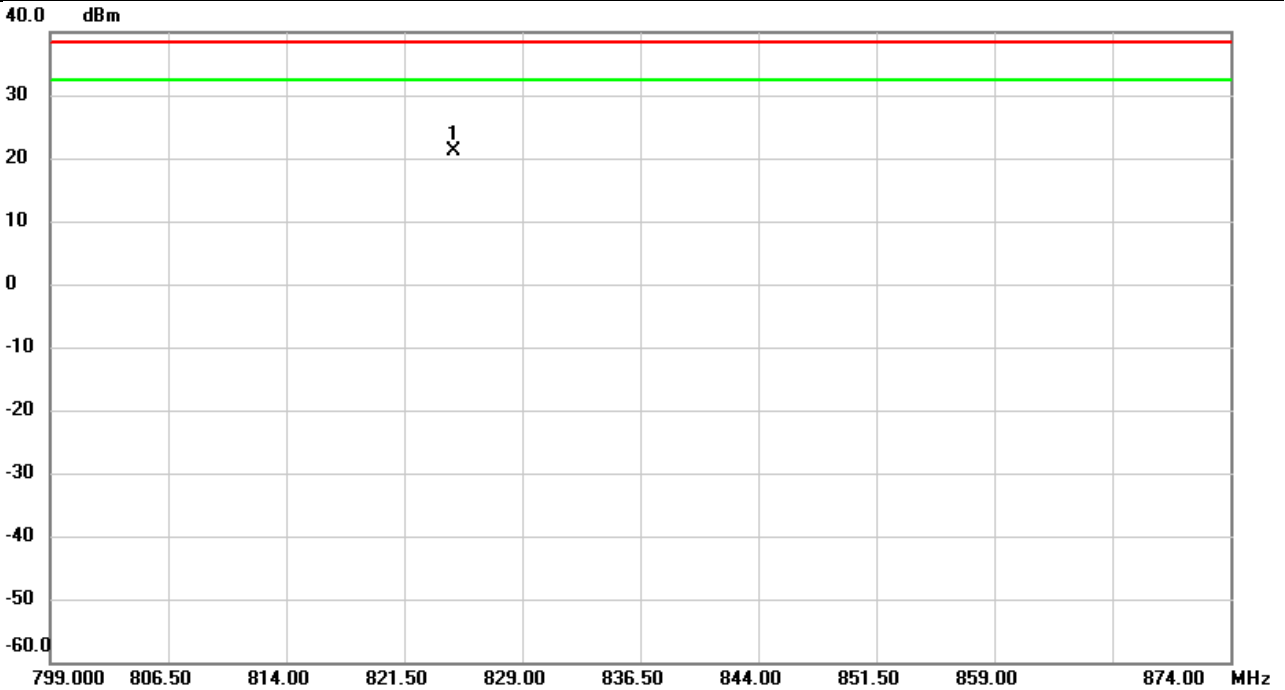


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	824.5450	-19.22	34.03	14.81	38.45	-23.64	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20450	Polarization	Horizontal
Temp	21°C	Hum.	64%

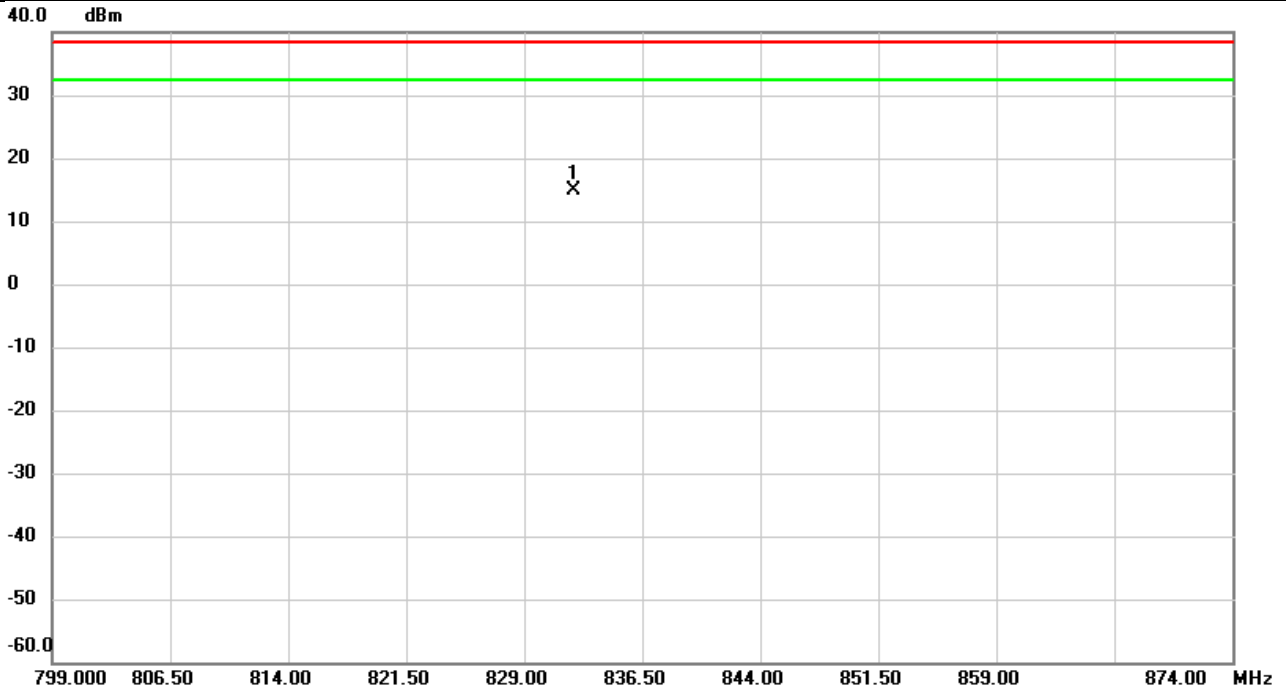


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	824.6350	-12.50	33.55	21.05	38.45	-17.40	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20525	Polarization	Vertical
Temp	21°C	Hum.	64%

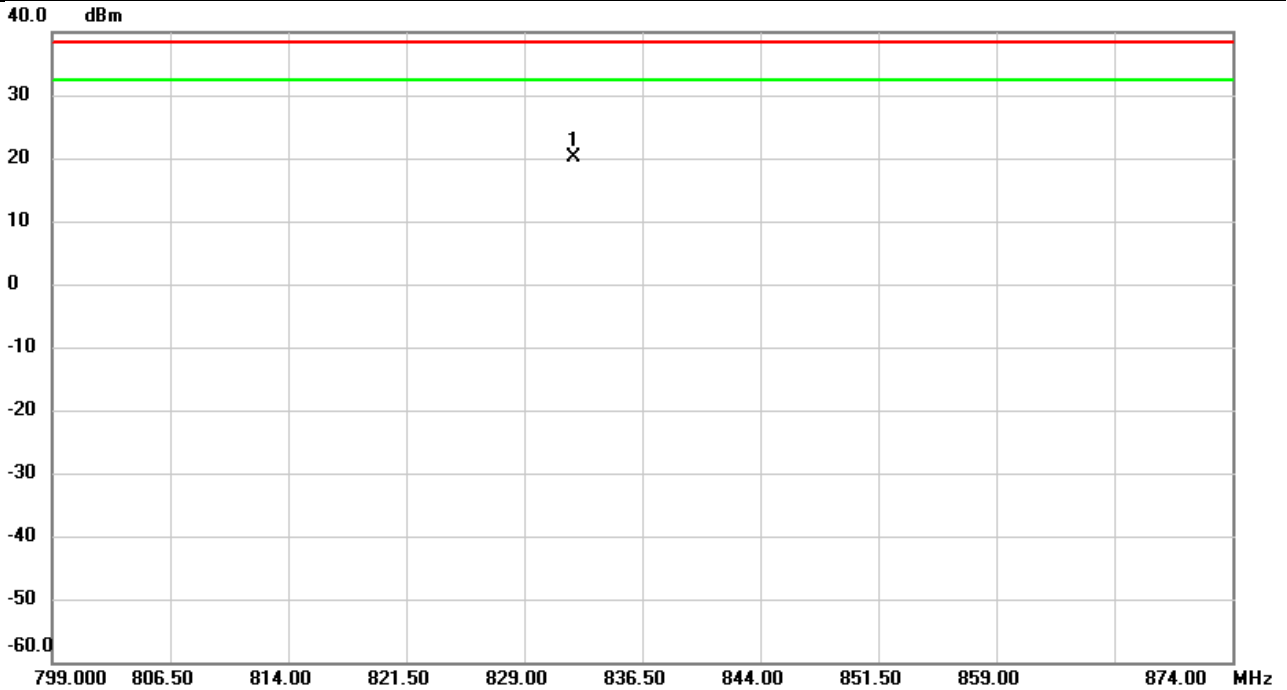


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	832.1400	-19.09	33.93	14.84	38.45	-23.61	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20525	Polarization	Horizontal
Temp	21°C	Hum.	64%

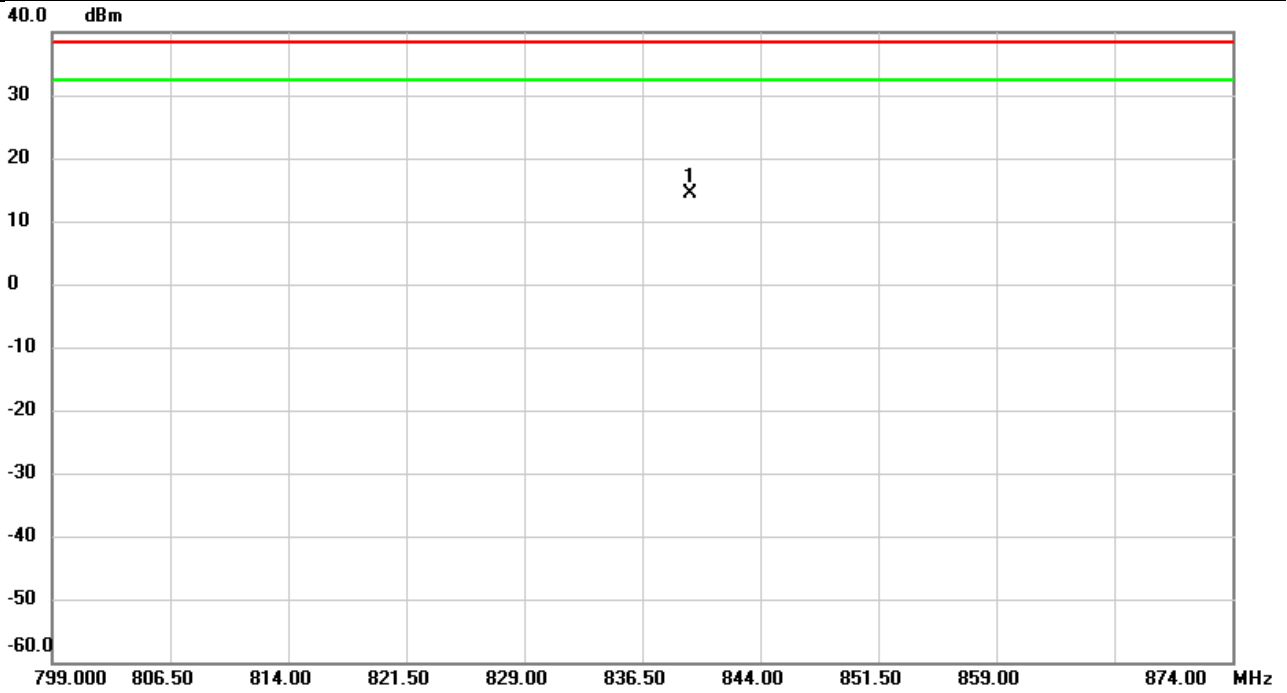


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	832.1275	-13.24	33.36	20.12	38.45	-18.33	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20600	Polarization	Vertical
Temp	21°C	Hum.	64%

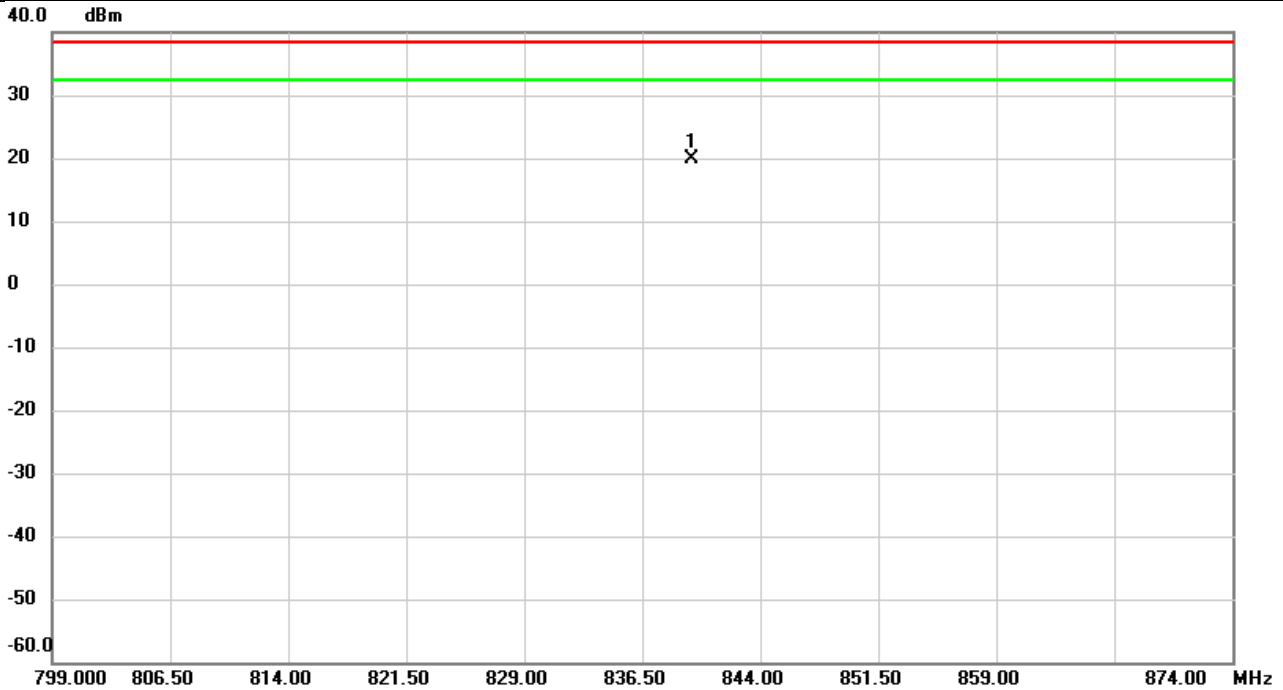


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	839.5350	-19.38	33.85	14.47	38.45	-23.98	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20600	Polarization	Horizontal
Temp	21°C	Hum.	64%

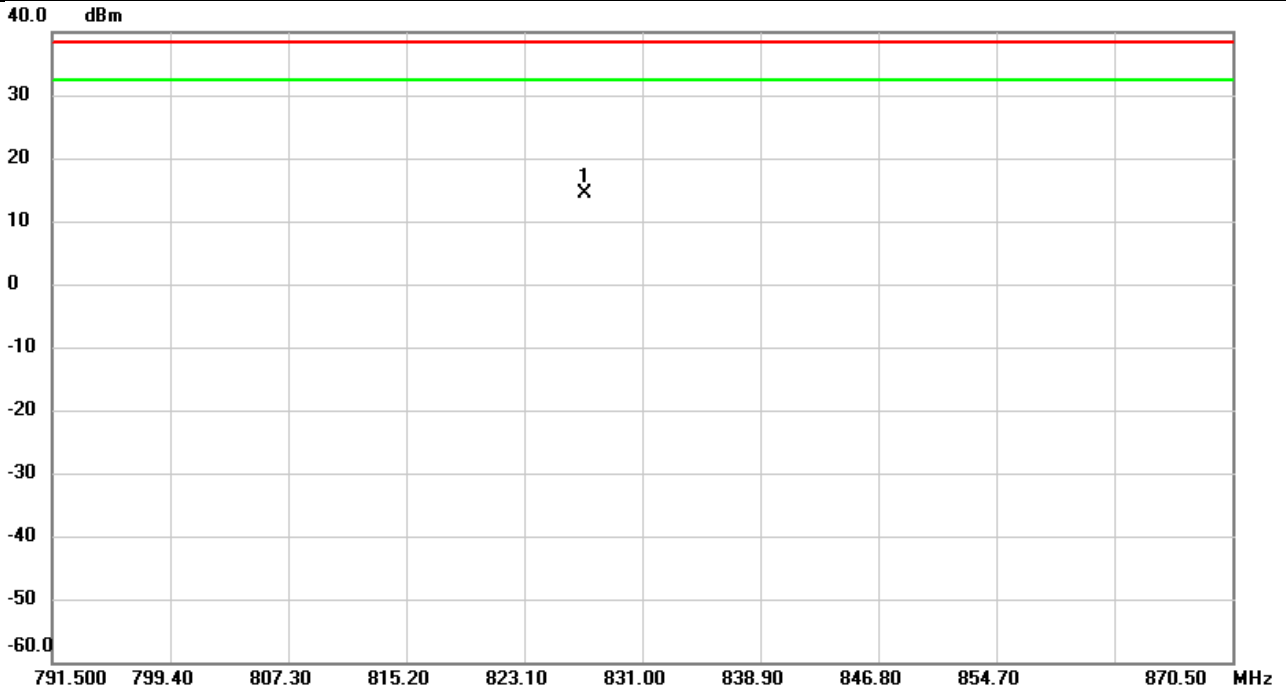


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	839.6250	-13.34	33.17	19.83	38.45	-18.62	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26865	Polarization	Vertical
Temp	21°C	Hum.	64%

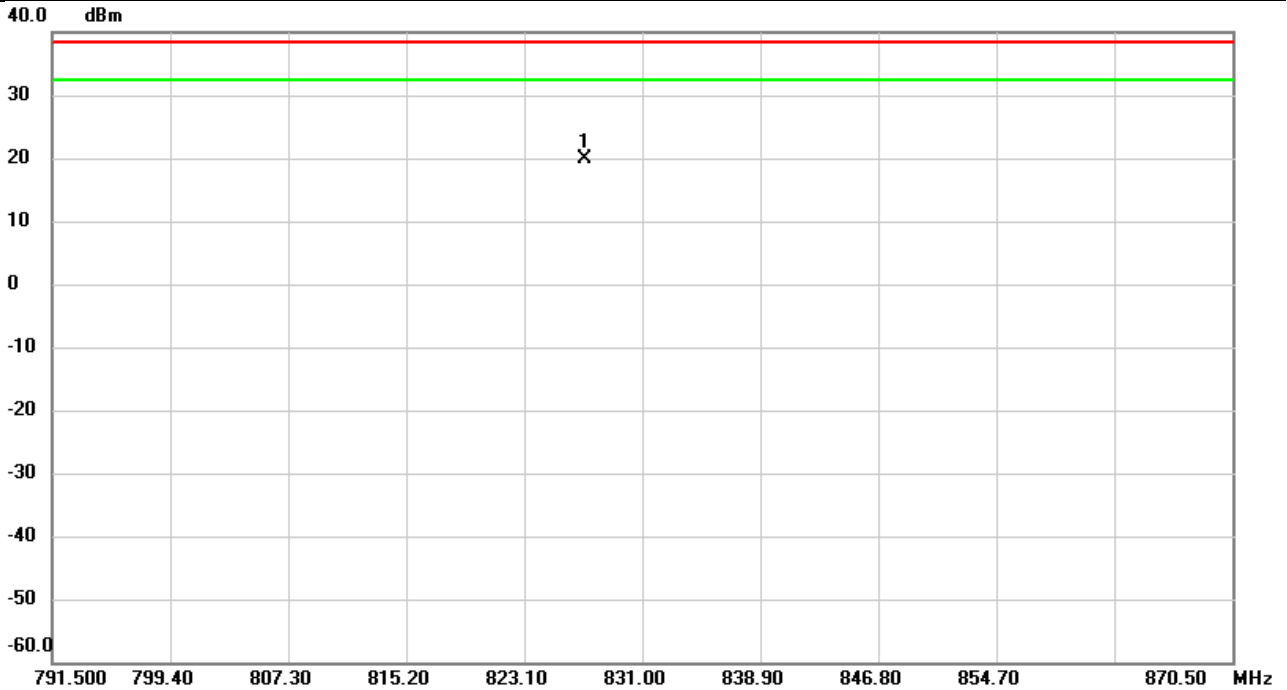


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	827.1105	-19.64	33.99	14.35	38.45	-24.10	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26865	Polarization	Horizontal
Temp	21°C	Hum.	64%

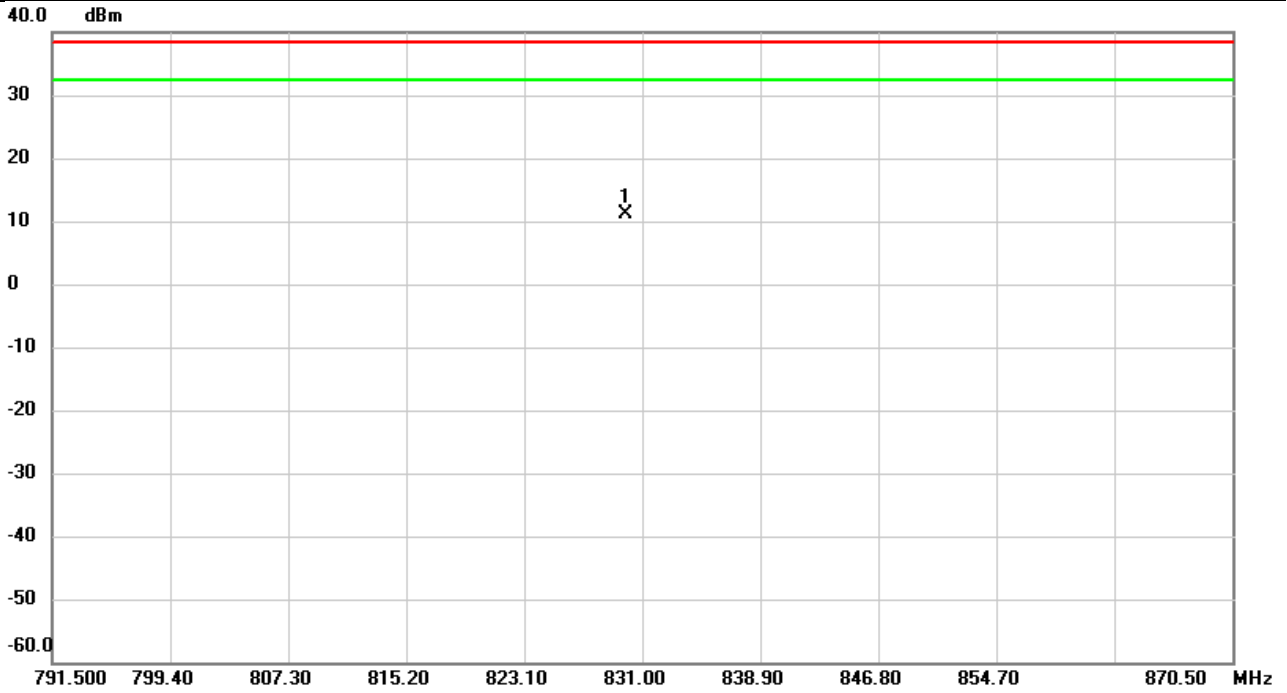


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	827.1553	-13.49	33.48	19.99	38.45	-18.46	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/4
Test Channel	CH26915	Polarization	Vertical
Temp	21°C	Hum.	64%

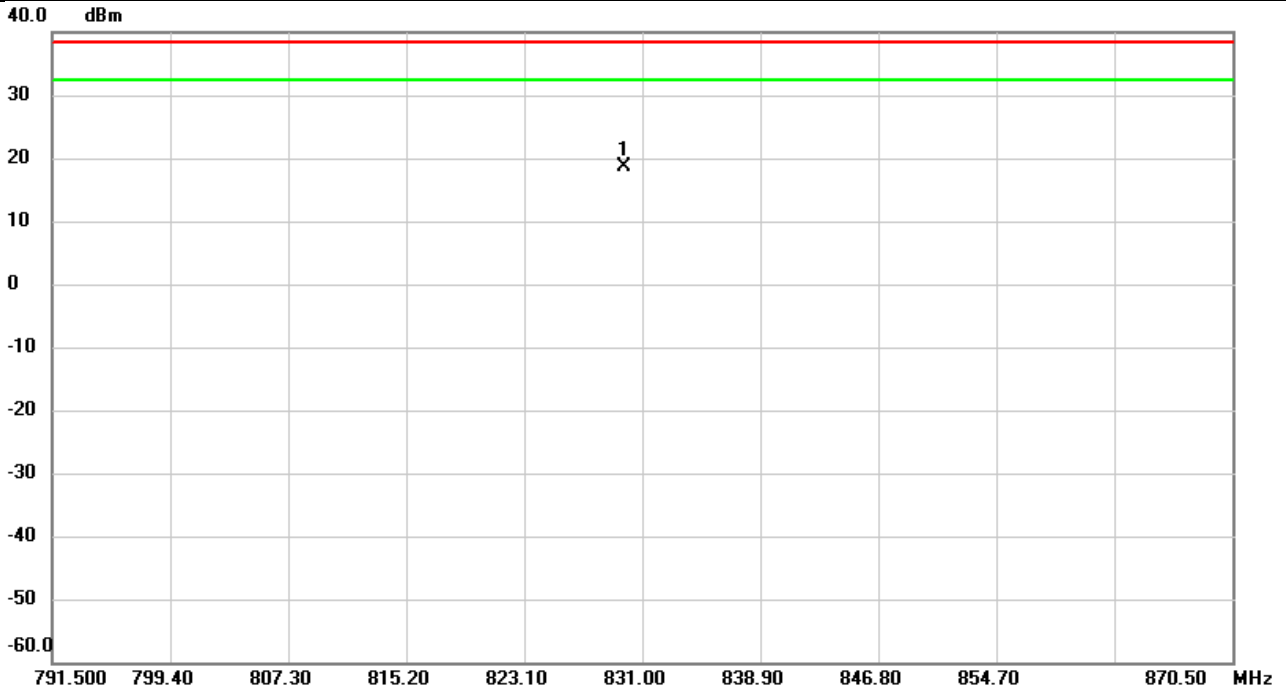


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	829.8782	-22.90	33.96	11.06	38.45	-27.39	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/4
Test Channel	CH26915	Polarization	Horizontal
Temp	21°C	Hum.	64%

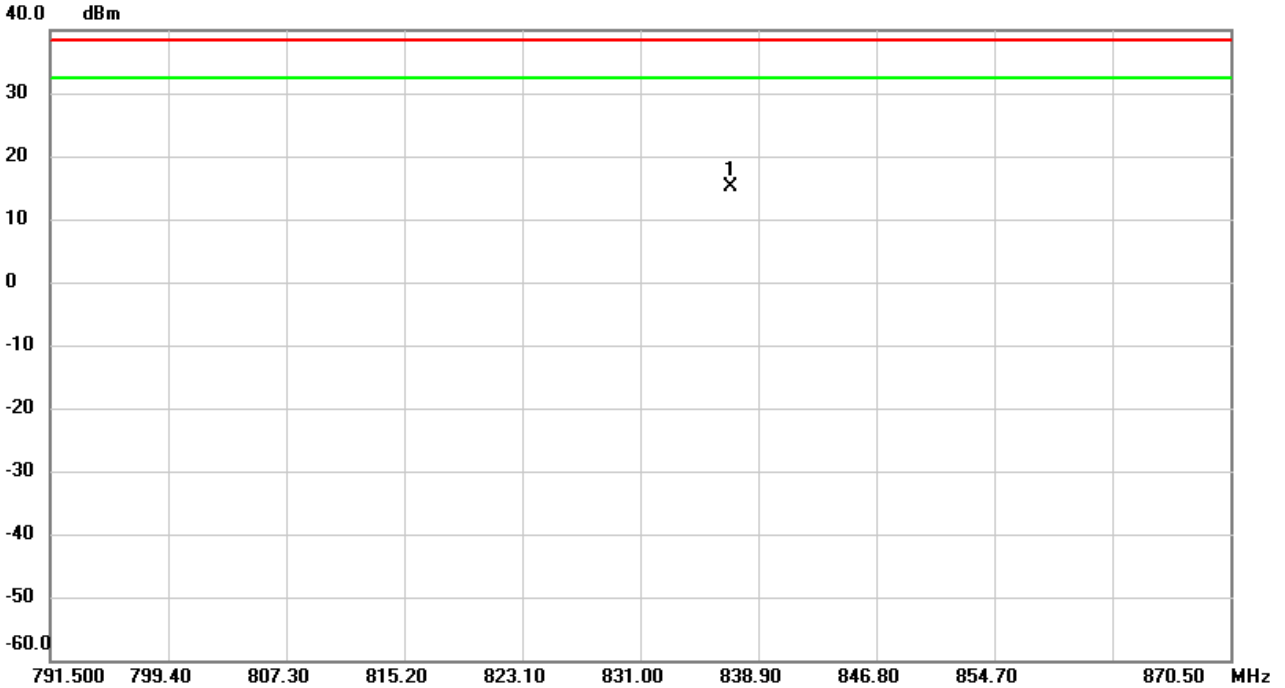


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	829.7755	-14.84	33.42	18.58	38.45	-19.87	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26965	Polarization	Vertical
Temp	21°C	Hum.	64%

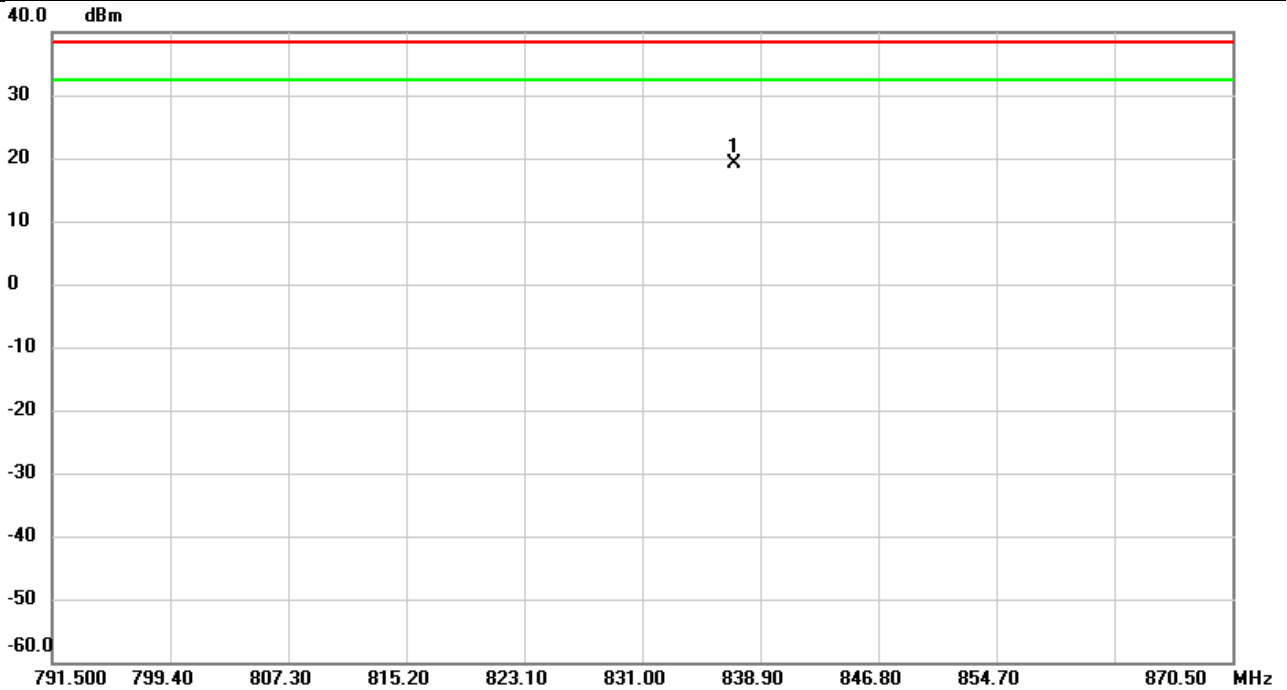


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	837.0540	-18.84	33.88	15.04	38.45	-23.41	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26965	Polarization	Horizontal
Temp	21°C	Hum.	64%



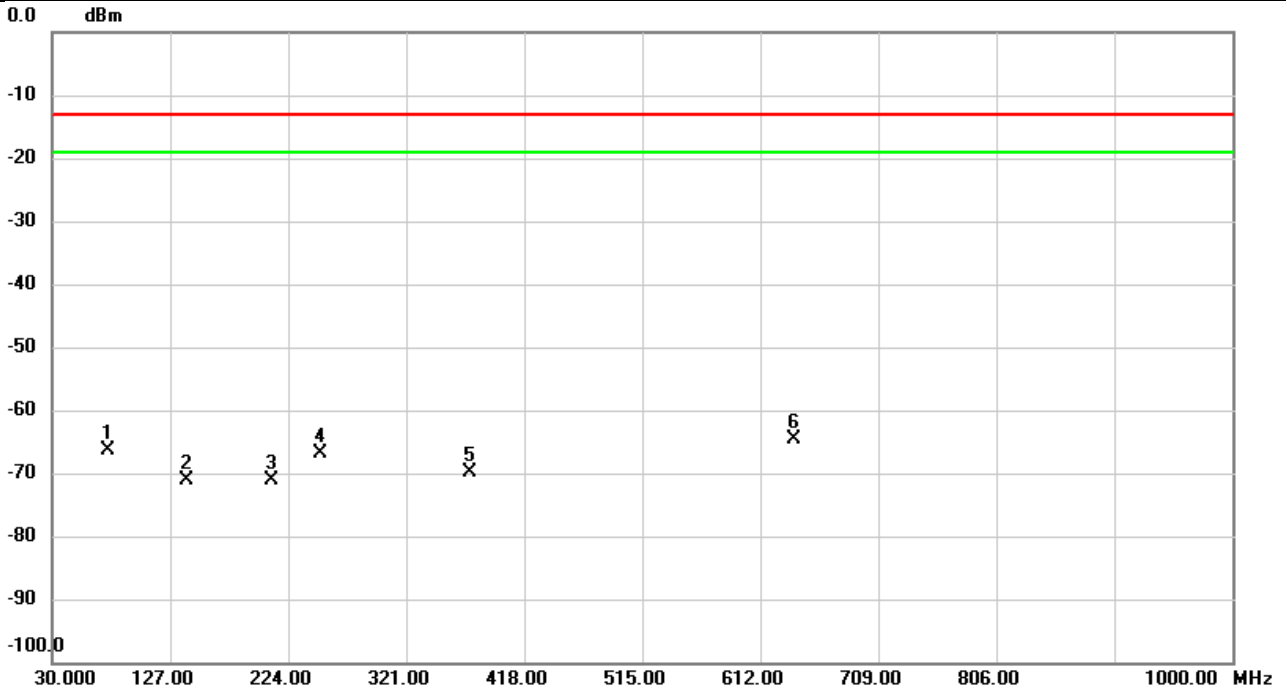
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	837.1541	-14.13	33.23	19.10	38.45	-19.35	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX C RADIATED SPURIOUS EMISSIONS

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Vertical
Temp	21°C	Hum.	64%

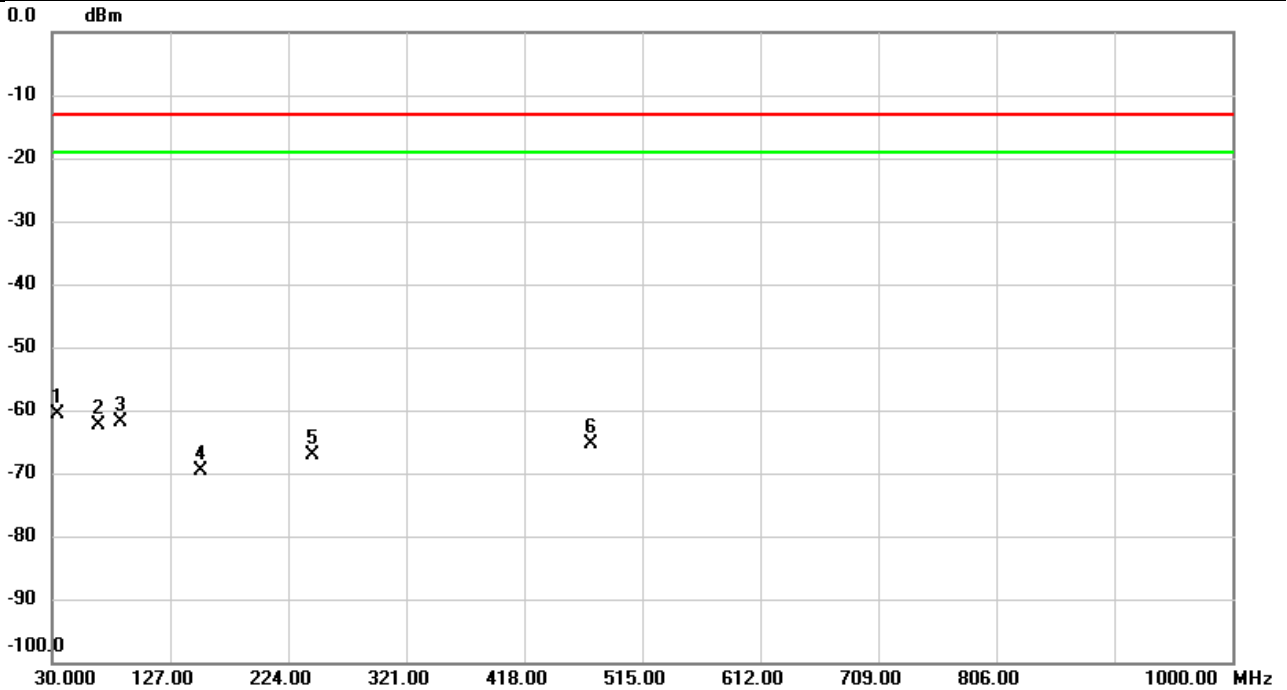


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		76.3660	-64.06	-2.22	-66.28	-13.00	-53.28	peak	
2		140.1597	-74.19	3.11	-71.08	-13.00	-58.08	peak	
3		210.1937	-73.38	2.15	-71.23	-13.00	-58.23	peak	
4		251.1277	-74.57	7.68	-66.89	-13.00	-53.89	peak	
5		373.6710	-74.90	5.09	-69.81	-13.00	-56.81	peak	
6	*	640.1947	-77.67	13.16	-64.51	-13.00	-51.51	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Horizontal
Temp	21°C	Hum.	64%

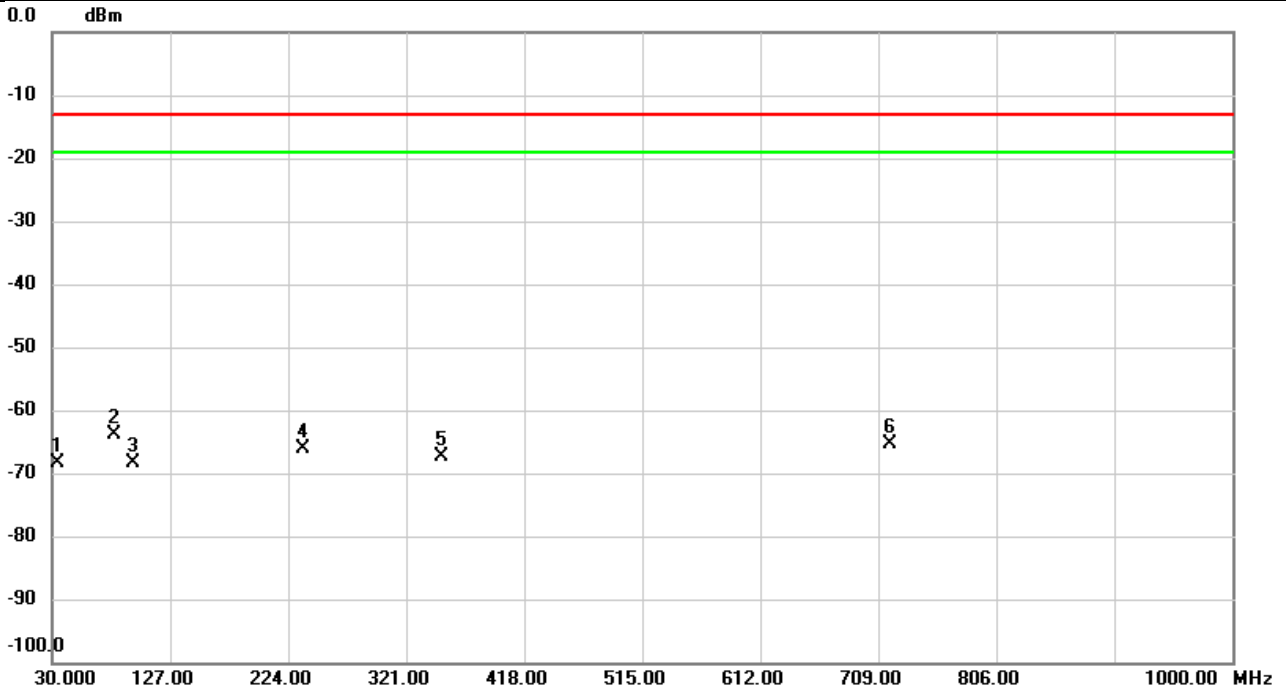


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	34.0740	-75.43	14.88	-60.55	-13.00	-47.55	peak	
2		67.7653	-67.32	4.83	-62.49	-13.00	-49.49	peak	
3		86.7773	-66.19	4.33	-61.86	-13.00	-48.86	peak	
4		152.1877	-72.51	2.84	-69.67	-13.00	-56.67	peak	
5		243.5293	-66.53	-0.55	-67.08	-13.00	-54.08	peak	
6		473.5810	-77.46	11.98	-65.48	-13.00	-52.48	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20525	Polarization	Vertical
Temp	21°C	Hum.	64%

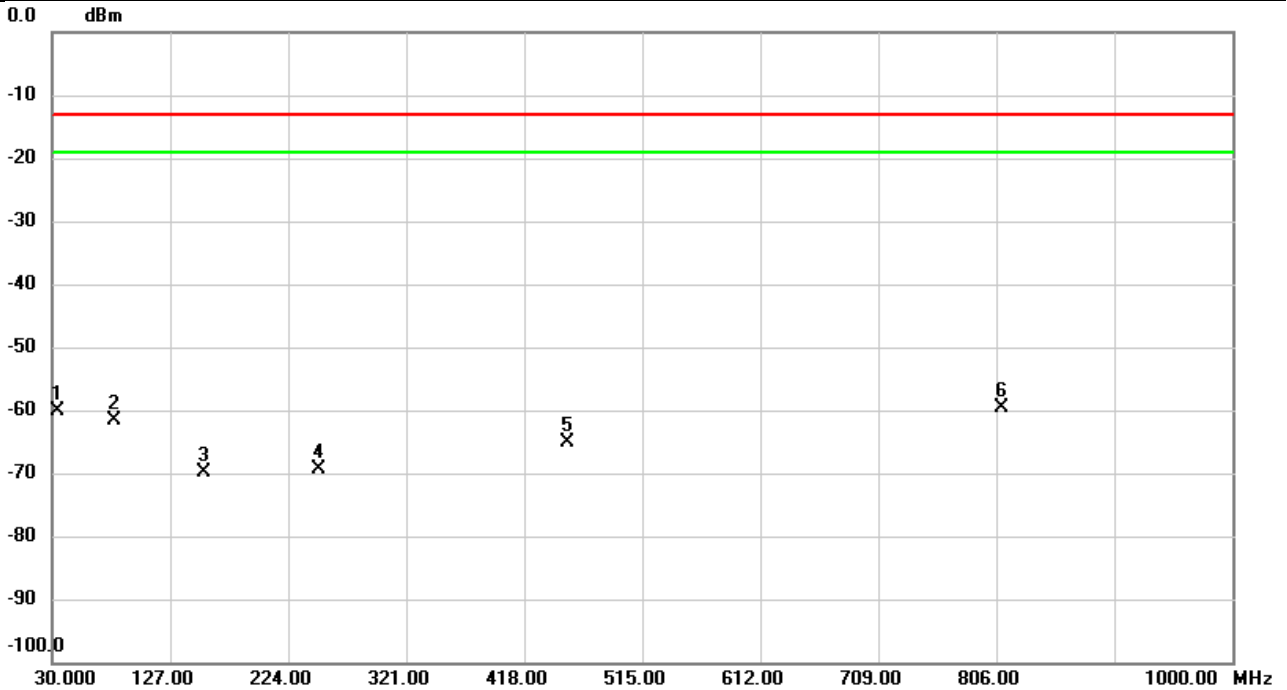


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		34.9793	-65.00	-3.42	-68.42	-13.00	-55.42	peak	
2	*	80.7310	-61.85	-2.04	-63.89	-13.00	-50.89	peak	
3		95.9600	-68.11	-0.21	-68.32	-13.00	-55.32	peak	
4		236.8363	-72.67	6.59	-66.08	-13.00	-53.08	peak	
5		350.5850	-74.49	7.00	-67.49	-13.00	-54.49	peak	
6		718.9587	-77.79	12.34	-65.45	-13.00	-52.45	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/3
Test Channel	CH20525	Polarization	Horizontal
Temp	21°C	Hum.	64%

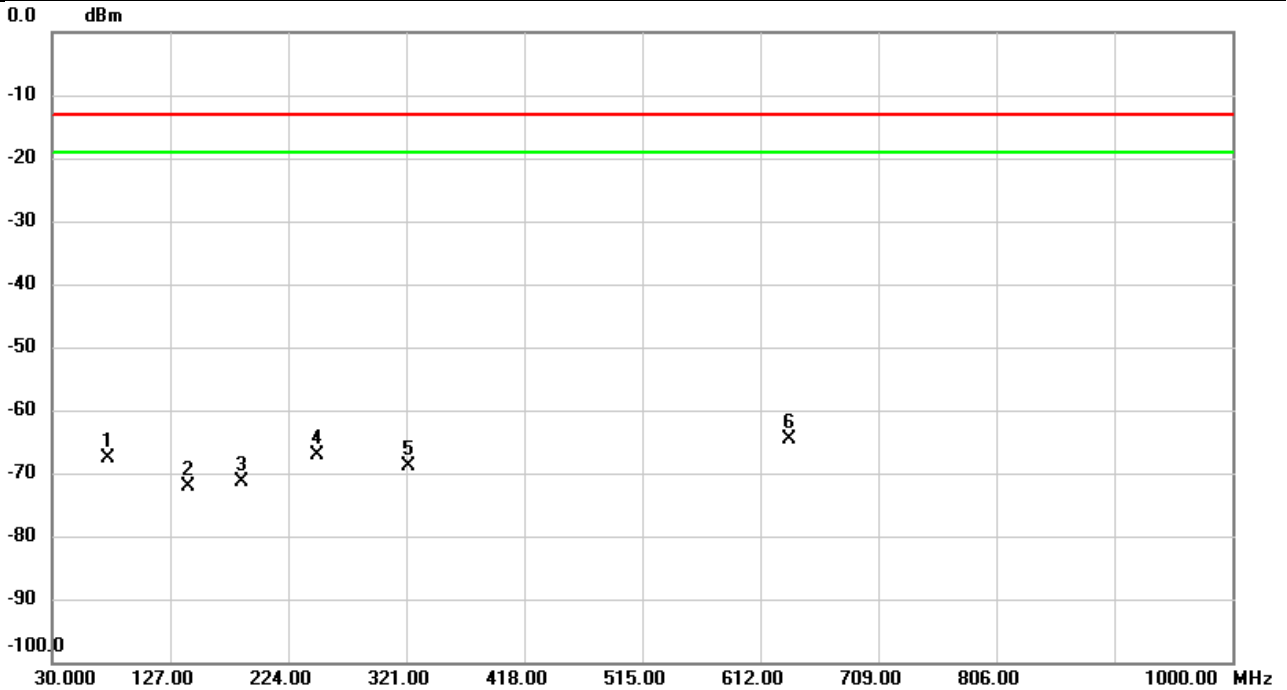


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		34.4620	-75.03	14.87	-60.16	-13.00	-47.16	peak	
2		81.1512	-67.24	5.51	-61.73	-13.00	-48.73	peak	
3		155.0007	-72.52	2.77	-69.75	-13.00	-56.75	peak	
4		249.1230	-68.57	-0.68	-69.25	-13.00	-56.25	peak	
5		453.4373	-77.54	12.38	-65.16	-13.00	-52.16	peak	
6	*	811.1087	-75.06	15.46	-59.60	-13.00	-46.60	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26865	Polarization	Vertical
Temp	21°C	Hum.	64%

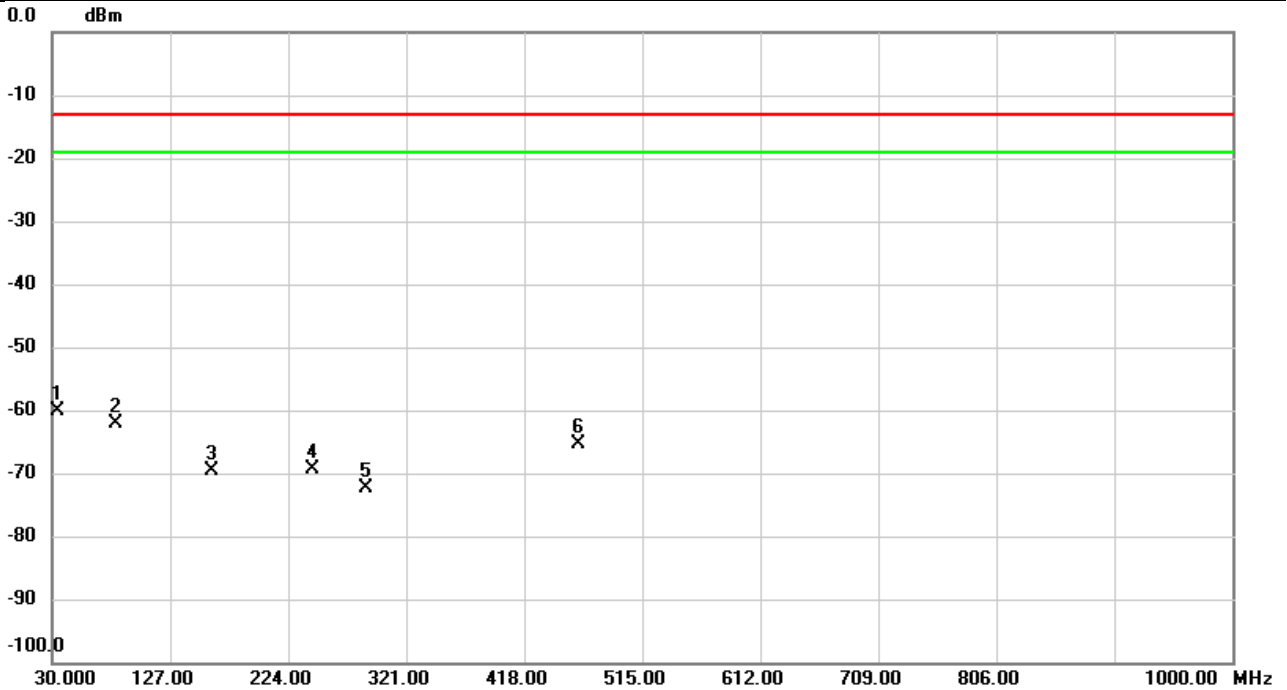


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		75.2990	-65.30	-2.27	-67.57	-13.00	-54.57	peak	
2		141.5176	-75.33	3.15	-72.18	-13.00	-59.18	peak	
3		186.2993	-75.46	4.15	-71.31	-13.00	-58.31	peak	
4		247.3447	-74.71	7.70	-67.01	-13.00	-54.01	peak	
5		323.1663	-76.25	7.38	-68.87	-13.00	-55.87	peak	
6	*	635.4740	-77.81	13.11	-64.70	-13.00	-51.70	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/3
Test Channel	CH26865	Polarization	Horizontal
Temp	21°C	Hum.	64%

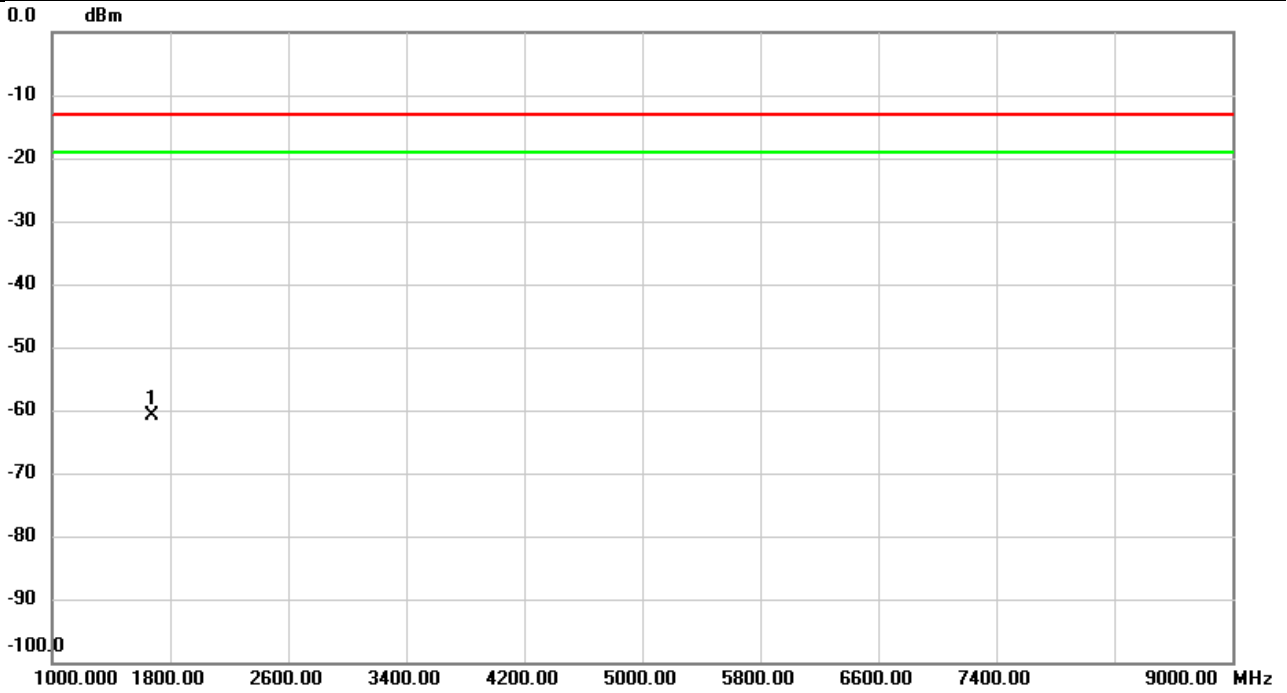


No.	Mk.	Freq. (MHz)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	Limit (dBm)	Over (dB)	Detector	Comment
1	*	34.1387	-75.05	14.87	-60.18	-13.00	-47.18	peak	
2		81.8627	-67.39	5.36	-62.03	-13.00	-49.03	peak	
3		161.2733	-72.15	2.58	-69.57	-13.00	-56.57	peak	
4		244.1437	-68.82	-0.57	-69.39	-13.00	-56.39	peak	
5		287.8907	-72.78	0.48	-72.30	-13.00	-59.30	peak	
6		462.9757	-77.82	12.43	-65.39	-13.00	-52.39	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Vertical
Temp	21°C	Hum.	64%

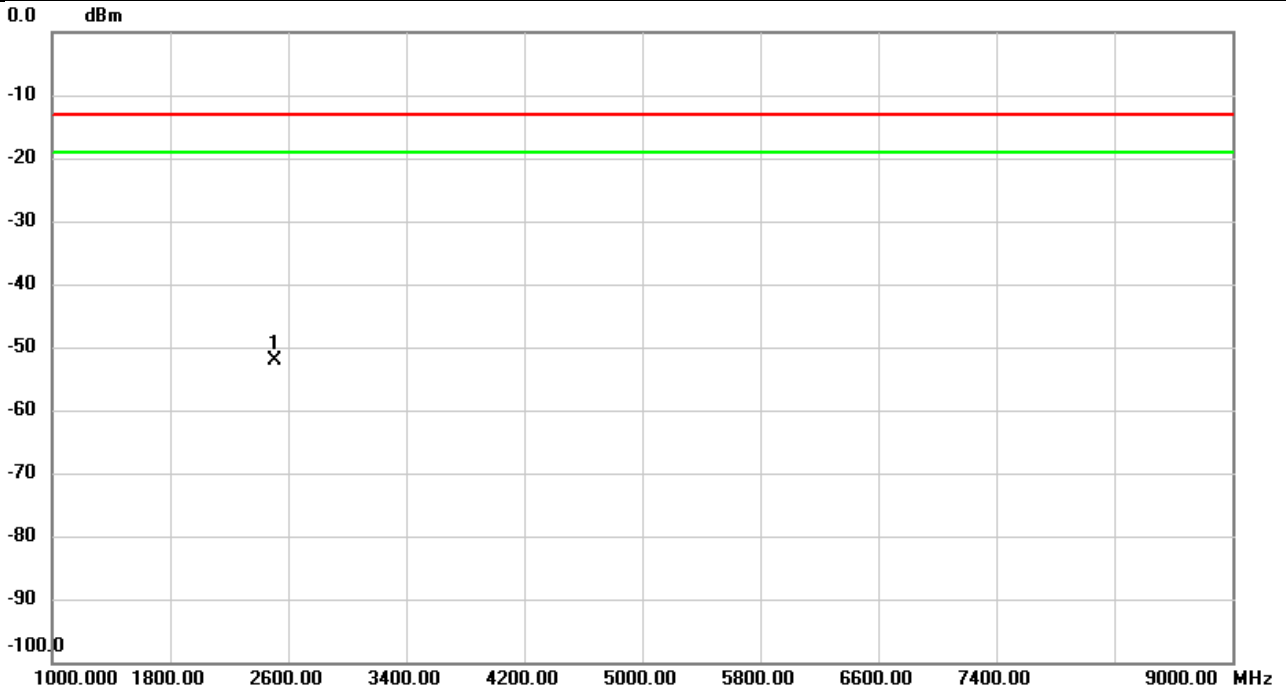


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1672.800	-54.18	-6.57	-60.75	-13.00	-47.75	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	WCDMA Band V	Test Date	2022/3/3
Test Channel	CH4183	Polarization	Horizontal
Temp	21°C	Hum.	64%

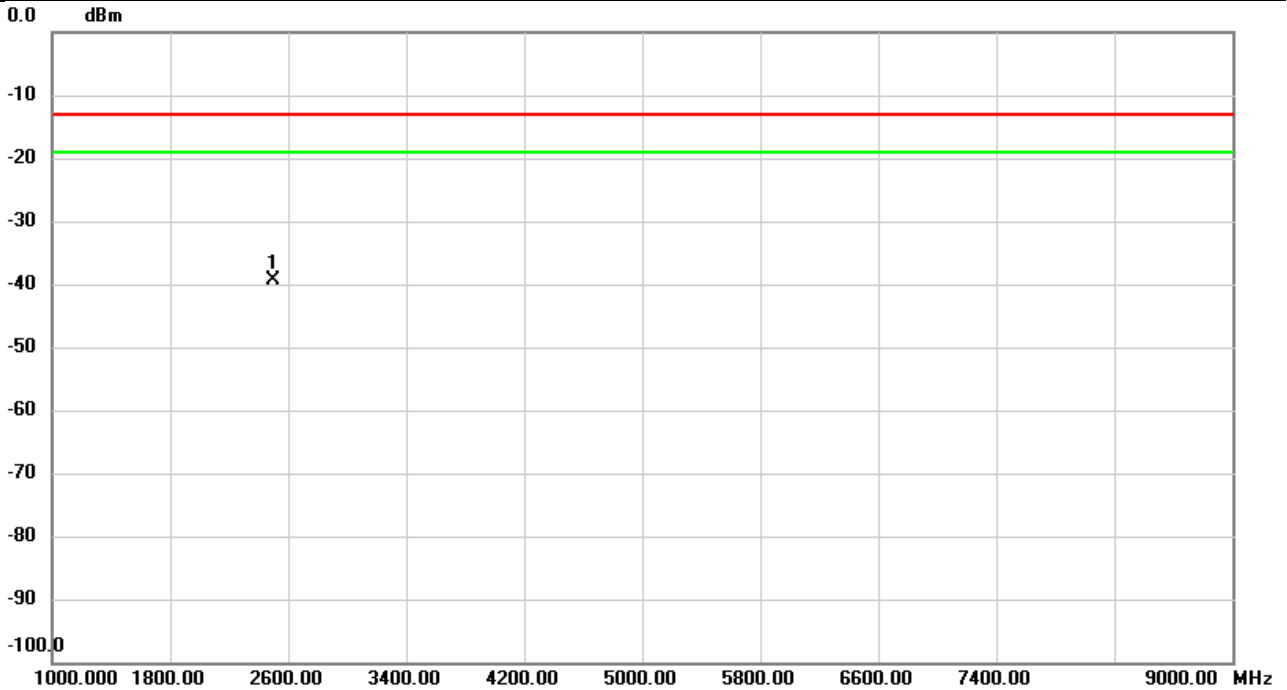


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2513.333	-47.95	-4.12	-52.07	-13.00	-39.07	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/4
Test Channel	CH20525	Polarization	Vertical
Temp	21°C	Hum.	64%

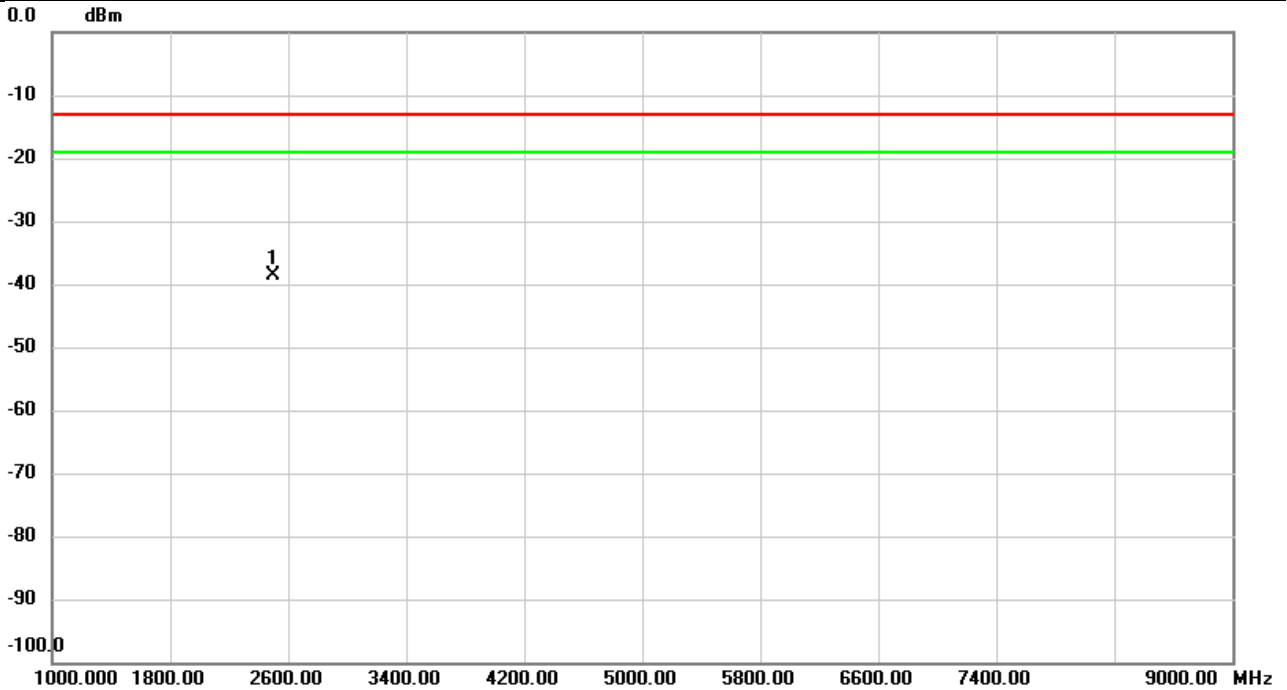


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2496.267	-34.95	-4.50	-39.45	-13.00	-26.45	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 5	Test Date	2022/3/4
Test Channel	CH20525	Polarization	Horizontal
Temp	21°C	Hum.	64%

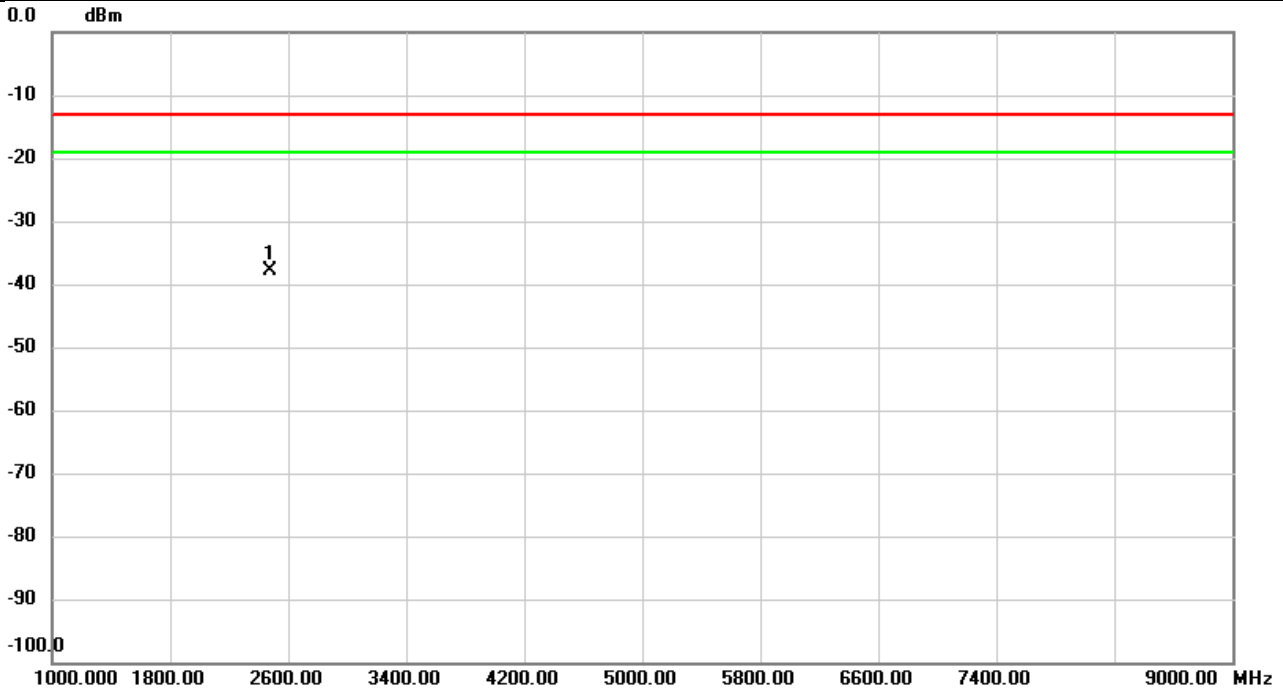


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2496.533	-34.15	-4.46	-38.61	-13.00	-25.61	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/4
Test Channel	CH26865	Polarization	Vertical
Temp	21°C	Hum.	64%

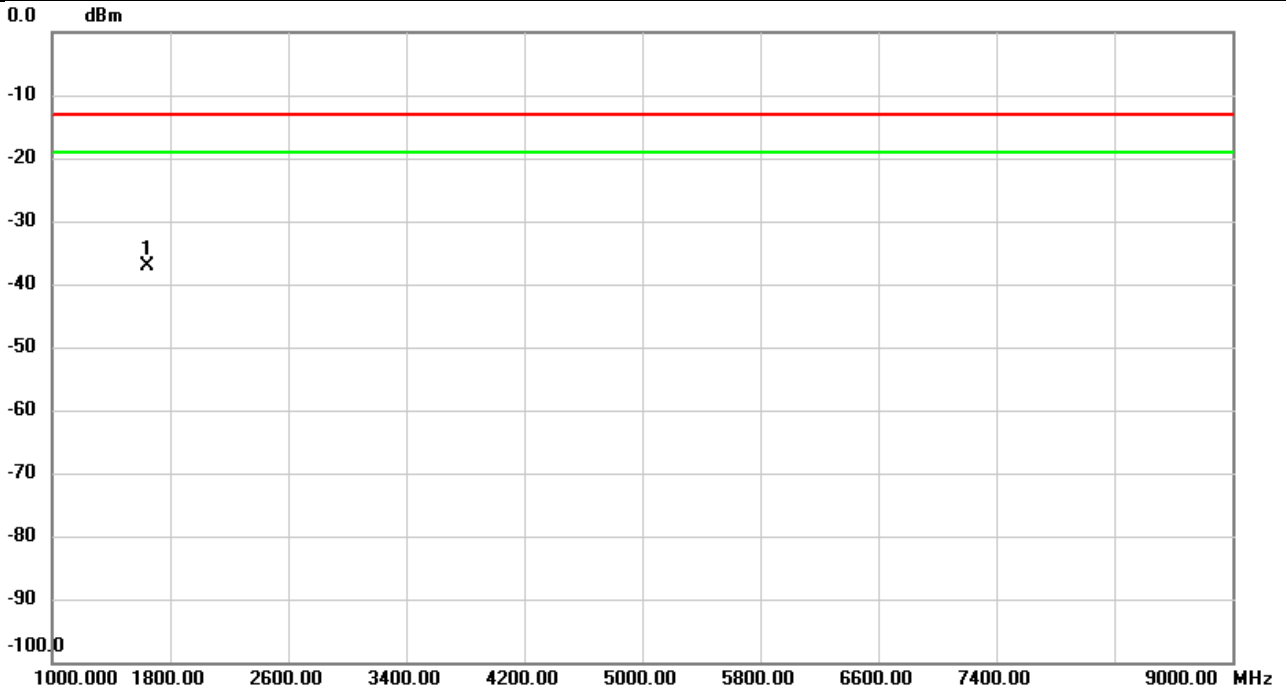


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2474.667	-33.29	-4.53	-37.82	-13.00	-24.82	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/3/4
Test Channel	CH26865	Polarization	Horizontal
Temp	21°C	Hum.	64%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1649.867	-28.63	-8.43	-37.06	-13.00	-24.06	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

End of Test Report